

CONTENT (MLCC)

E STANDARD NUMBER..... 3

STRUCTURE 4

ORDERING CODE 4

GENERAL PURPOSE 5

 CLASS I: TEMPERATURE COMPENSATING TYPE 6

 CLASS II: HIGH DIELECTRIC CONSTANT TYPE 12

X5R Series 12

X6S Series 17

X7R Series 18

X7S Series 27

Y5V Series 28

 TEST SPEC. 30

PACKAGE 34

OTHERS 38

E Standard Number

E3	1.0						2.2						4.7											
E6	1.0		1.5				2.2			3.3			4.7			6.8								
E12	1.0	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2												
E24	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.6	3.9	4.3	4.7	5.1	5.6	6.2	6.8	7.5	8.2	9.1

Structure



Ordering Code

C 1005 NP0 101 J G T S Δ

PRODUCT CODE

C = MLCC

SIZE in mm (EIA CODE, in inch)

0402(01005)	0603(0201)	1005 (0402)	1608 (0603)	2012 (0805)
3216 (1206)	3225(1210)	4520 (1808)	4532 (1812)	

T. C.

NP0: 0 ± 30ppm/°C	-55°C to +125°C	X7S:±22%	-55°C to +125°C
X7R: ±15%	-55°C to +125°C	X6S: ±22%	-55°C to +105°C
X5R: ±15%	-55°C to +85°C	Y5V: +22%/-82%	-30°C to +85°C

CAPACITANCE CODE

Expressed in pico-farads and identified by a three-digit number.
 First two digits represent significant figures.
 Last digit specifies the number of zeros.
 (Use 9 for 1.0 through 9.9pF ; Use 8 for 0.20 through 0.99pF)

Examples:

Code	Cap (pF)
478	0.47
229	2.2
101	100
102	1000

TOLERANCE CODE

A: ± 0.05pF	B: ± 0.1pF	C: ± 0.25pF	D: ± 0.5pF	F: ±1%	G: ±2%
J: ±5%	K: ±10%	M: ±20%	Z: +80/-20%		

VOLTAGE CODE

B: 4V	C: 6.3V	D: 10V	E: 16V	F: 25V	N: 35V	G: 50V	H: 100V
J: 200V	K: 250V	L: 500V	M: 630V	P: 1KV	Q: 2KV	R: 3KV	S: 4KV

PACKAGING CODE

T: Paper tape reel Ø180mm (7")	P: Embossed tape reel Ø180mm (7")
N: Paper tape reel Ø250mm (10")	D: Embossed tape reel Ø250mm (10")
A: Paper tape reel Ø330mm (13")	E: Embossed tape reel Ø330mm (13")
W: Special Packing	

Application Code

S: Standard Q: High Q/Low ESR F: Microwave A: Automotive with AEC-Q200

Thickness Code

Code	Thick (mm)	Code	Thick(mm)	Code	Thick (mm)
(blank)	Standard Thick	M	0.70	G	1.25
Z	0.20	D	0.80	H	1.50
A	0.30	E	0.85	L	1.60
Q	0.45	I	0.95	N	2.00
B	0.50	J	1.00	P	2.50
C	0.60	F	1.15	R	3.20

General Purpose

■ External Dimensions



TYPE		Dimension (mm)				
Size (EIA Size)		L (Length)	W (Width)	T (Max.)	g (Min)	A (Min/Max)
C0603 (0201)	Standard	0.6 ± 0.03	0.30 ± 0.03	0.33	0.15	0.10 / 0.20
	Special(1)	0.6 ± 0.05	0.30 ± 0.05	0.35		
	Special(2)	0.6 ± 0.09	0.30 ± 0.09	0.39		0.10 / 0.25
C1005 (0402)	Standard	1.0 ± 0.05	0.50 ± 0.05	0.55	0.30	0.15 / 0.35
	Special(1)	1.0 ± 0.10	0.50 ± 0.10	0.60		
	Special(2)	1.0 ± 0.15	0.50 ± 0.15	0.65		
	Special(3)	1.0 ± 0.20	0.50 ± 0.20	0.70		
C1608 (0603)	Standard	1.6 ± 0.10	0.80 ± 0.10	0.90	0.50	0.25 / 0.65
	Special(1)	1.6 ± 0.15	0.80 ± 0.15	0.95		
	Special(2)	1.6 ± 0.20	0.80 ± 0.20	1.00		
C2012 (0805)	Standard	2.0 ± 0.15	1.25 ± 0.15	1.45	0.70	0.25 / 0.75
	Special(1)	2.0 ± 0.20	1.25 ± 0.20	1.45		
C3216 (1206)	Standard	3.2 ± 0.15	1.60 ± 0.15	1.80	1.50	0.25 / 0.75
	Special(1)	3.2 ± 0.20	1.60 ± 0.20	1.90		
	Special(2)	3.2 ± 0.30	1.60 ± 0.30	1.90		
C3225 (1210)	Standard	3.2 ± 0.30	2.50 ± 0.20	2.80	1.50	0.3 / 0.90
	Special(1)	3.2 ± 0.40	2.50 ± 0.30	2.80		

For special parts, please see the "Part Number & Characteristic" for detail specification.

● Class I: Temperature Compensating Type

■ Feature

1. Ultra-stable
2. Tight tolerance available
3. Low ESR
4. Good frequency performance
5. No aging of capacitance
6. RoHS compliant

■ Application

1. LC and RC tuned circuit
2. Filtering
3. Timing

■ Part Number & Characteristic

● C0603NP0_S Series (EIA0201)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing
				Value	Unit			L/W	Thick.		
50V	C0603NP0208	C0603NP0208	1V, 1MHz	0.20	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	Paper,15Kpcs
	C0603NP0308	C0603NP0308	1V, 1MHz	0.30	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	
	C0603NP0408	C0603NP0408	1V, 1MHz	0.40	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	
	C0603NP0508	C0603NP0508	1V, 1MHz	0.50	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0608	C0603NP0608	1V, 1MHz	0.60	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0708	C0603NP0708	1V, 1MHz	0.70	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0758	C0603NP0758	1V, 1MHz	0.75	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0808	C0603NP0808	1V, 1MHz	0.80	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0908	C0603NP0908	1V, 1MHz	0.90	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0109	C0603NP0109	1V, 1MHz	1.0	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0119	C0603NP0119	1V, 1MHz	1.1	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0129	C0603NP0129	1V, 1MHz	1.2	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0139	C0603NP0139	1V, 1MHz	1.3	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0159	C0603NP0159	1V, 1MHz	1.5	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0169	C0603NP0169	1V, 1MHz	1.6	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0189	C0603NP0189	1V, 1MHz	1.8	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0209	C0603NP0209	1V, 1MHz	2.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0229	C0603NP0229	1V, 1MHz	2.2	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0249	C0603NP0249	1V, 1MHz	2.4	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
	C0603NP0279	C0603NP0279	1V, 1MHz	2.7	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
	C0603NP0309	C0603NP0309	1V, 1MHz	3.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
	C0603NP0339	C0603NP0339	1V, 1MHz	3.3	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0359	C0603NP0359	1V, 1MHz	3.5	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0399	C0603NP0399	1V, 1MHz	3.9	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0409	C0603NP0409	1V, 1MHz	4.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0439	C0603NP0439	1V, 1MHz	4.3	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0479	C0603NP0479	1V, 1MHz	4.7	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0509	C0603NP0509	1V, 1MHz	5.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0519	C0603NP0519	1V, 1MHz	5.1	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0569	C0603NP0569	1V, 1MHz	5.6	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0609	C0603NP0609	1V, 1MHz	6.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0689	C0603NP0689	1V, 1MHz	6.8	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0709	C0603NP0709	1V, 1MHz	7.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0759	C0603NP0759	1V, 1MHz	7.5	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
	C0603NP0809	C0603NP0809	1V, 1MHz	8.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
	C0603NP0829	C0603NP0829	1V, 1MHz	8.2	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
	C0603NP0909	C0603NP0909	1V, 1MHz	9.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.17%	
	C0603NP0100	C0603NP0100	1V, 1MHz	10	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.17%	
	C0603NP0120	C0603NP0120	1V, 1MHz	12	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.16%	
	C0603NP0150	C0603NP0150	1V, 1MHz	15	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.14%	
C0603NP0180	C0603NP0180	1V, 1MHz	18	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.13%		
C0603NP0200	C0603NP0200	1V, 1MHz	20	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.13%		
C0603NP0220	C0603NP0220	1V, 1MHz	22	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.12%		
C0603NP0270	C0603NP0270	1V, 1MHz	27	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.11%		
C0603NP0330	C0603NP0330	1V, 1MHz	33	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0390	C0603NP0390	1V, 1MHz	39	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0470	C0603NP0470	1V, 1MHz	47	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0560	C0603NP0560	1V, 1MHz	56	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0680	C0603NP0680	1V, 1MHz	68	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0820	C0603NP0820	1V, 1MHz	82	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0101	C0603NP0101	1V, 1MHz	100	pF	±5%, ±2%, ±1%	0.30	±0.03	±0.03	0.10%		

□ Tolerance Code: A=±0.05 pF, B=±0.1pF, C=±0.25pF, D=±0.5pF, F=±1%, G=±2%, J=±5%; Special tolerance on the request.

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing
				Value	Unit			L/W	Thick.		
25V	C0603NP0208	C0603NP0208	1V, 1MHz	0.20	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	Paper, 15Kpcs
	C0603NP0308	C0603NP0308	1V, 1MHz	0.30	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	
	C0603NP0408	C0603NP0408	1V, 1MHz	0.40	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.25%	
	C0603NP0508	C0603NP0508	1V, 1MHz	0.50	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0608	C0603NP0608	1V, 1MHz	0.60	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0708	C0603NP0708	1V, 1MHz	0.70	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0758	C0603NP0758	1V, 1MHz	0.75	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0808	C0603NP0808	1V, 1MHz	0.80	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0908	C0603NP0908	1V, 1MHz	0.90	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0109	C0603NP0109	1V, 1MHz	1.0	pF	±0.25pF,±0.1pF,±0.05pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0129	C0603NP0129	1V, 1MHz	1.2	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.24%	
	C0603NP0139	C0603NP0139	1V, 1MHz	1.3	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0159	C0603NP0159	1V, 1MHz	1.5	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0169	C0603NP0169	1V, 1MHz	1.6	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0189	C0603NP0189	1V, 1MHz	1.8	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0209	C0603NP0209	1V, 1MHz	2.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0229	C0603NP0229	1V, 1MHz	2.2	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.23%	
	C0603NP0279	C0603NP0279	1V, 1MHz	2.7	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
	C0603NP0309	C0603NP0309	1V, 1MHz	3.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	
	C0603NP0339	C0603NP0339	1V, 1MHz	3.3	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0359	C0603NP0359	1V, 1MHz	3.5	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0399	C0603NP0399	1V, 1MHz	3.9	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0409	C0603NP0409	1V, 1MHz	4.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0439	C0603NP0439	1V, 1MHz	4.3	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.21%	
	C0603NP0479	C0603NP0479	1V, 1MHz	4.7	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0509	C0603NP0509	1V, 1MHz	5.0	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0519	C0603NP0519	1V, 1MHz	5.1	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0569	C0603NP0569	1V, 1MHz	5.6	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.20%	
	C0603NP0609	C0603NP0609	1V, 1MHz	6.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0689	C0603NP0689	1V, 1MHz	6.8	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0709	C0603NP0709	1V, 1MHz	7.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.19%	
	C0603NP0759	C0603NP0759	1V, 1MHz	7.5	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
	C0603NP0809	C0603NP0809	1V, 1MHz	8.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%	
C0603NP0829	C0603NP0829	1V, 1MHz	8.2	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.18%		
C0603NP0909	C0603NP0909	1V, 1MHz	9.0	pF	±0.5pF,±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.17%		
C0603NP0100	C0603NP0100	1V, 1MHz	10	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.17%		
C0603NP0120	C0603NP0120	1V, 1MHz	12	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.16%		
C0603NP0150	C0603NP0150	1V, 1MHz	15	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.14%		
C0603NP0180	C0603NP0180	1V, 1MHz	18	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.13%		
C0603NP0200	C0603NP0200	1V, 1MHz	20	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.13%		
C0603NP0220	C0603NP0220	1V, 1MHz	22	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.12%		
C0603NP0240	C0603NP0240	1V, 1MHz	24	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.11%		
C0603NP0270	C0603NP0270	1V, 1MHz	27	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.11%		
C0603NP0330	C0603NP0330	1V, 1MHz	33	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0390	C0603NP0390	1V, 1MHz	39	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0470	C0603NP0470	1V, 1MHz	47	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0560	C0603NP0560	1V, 1MHz	56	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0680	C0603NP0680	1V, 1MHz	68	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0820	C0603NP0820	1V, 1MHz	82	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%		
C0603NP0101	C0603NP0101	1V, 1MHz	100	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%		
16V	C0603NP0279	C0603NP0279	1V, 1MHz	2.7	pF	±0.25pF,±0.1pF	0.30	±0.03	±0.03	0.22%	Paper, 15Kpcs
	C0603NP0330	C0603NP0330	1V, 1MHz	33	pF	±5%,±2%,±1%	0.30	±0.03	±0.03	0.10%	

● C1005NP0_S Series (EIA0402)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing
				Value	Unit			L/W	Thick.		
50V	C1005NP0208	C1005NP0208	1V, 1MHz	0.20	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.25%	Paper, 10Kpcs
	C1005NP0308	C1005NP0308	1V, 1MHz	0.30	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.25%	
	C1005NP0408	C1005NP0408	1V, 1MHz	0.40	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.25%	
	C1005NP0508	C1005NP0508	1V, 1MHz	0.50	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0608	C1005NP0608	1V, 1MHz	0.60	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0708	C1005NP0708	1V, 1MHz	0.70	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0808	C1005NP0808	1V, 1MHz	0.80	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0908	C1005NP0908	1V, 1MHz	0.90	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0109	C1005NP0109	1V, 1MHz	1.0	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0129	C1005NP0129	1V, 1MHz	1.2	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.24%	
	C1005NP0139	C1005NP0139	1V, 1MHz	1.3	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0159	C1005NP0159	1V, 1MHz	1.5	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0189	C1005NP0189	1V, 1MHz	1.8	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0209	C1005NP0209	1V, 1MHz	2.0	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0229	C1005NP0229	1V, 1MHz	2.2	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.23%	
	C1005NP0249	C1005NP0249	1V, 1MHz	2.4	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.22%	
	C1005NP0279	C1005NP0279	1V, 1MHz	2.7	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.22%	
	C1005NP0309	C1005NP0309	1V, 1MHz	3.0	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.22%	
	C1005NP0339	C1005NP0339	1V, 1MHz	3.3	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0369	C1005NP0369	1V, 1MHz	3.6	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0399	C1005NP0399	1V, 1MHz	3.9	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0409	C1005NP0409	1V, 1MHz	4.0	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0439	C1005NP0439	1V, 1MHz	4.3	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.21%	
	C1005NP0479	C1005NP0479	1V, 1MHz	4.7	pF	±0.25pF,±0.1pF,±0.05pF	0.50	±0.05	±0.05	0.20%	
	C1005NP0509	C1005NP0509	1V, 1MHz	5.0	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.20%	
	C1005NP0519	C1005NP0519	1V, 1MHz	5.1	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.20%	
	C1005NP0569	C1005NP0569	1V, 1MHz	5.6	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.20%	
	C1005NP0609	C1005NP0609	1V, 1MHz	6.0	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.19%	
	C1005NP0629	C1005NP0629	1V, 1MHz	6.2	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.19%	
	C1005NP0689	C1005NP0689	1V, 1MHz	6.8	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.19%	
	C1005NP0709	C1005NP0709	1V, 1MHz	7.0	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.19%	
	C1005NP0759	C1005NP0759	1V, 1MHz	7.5	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.18%	
	C1005NP0809	C1005NP0809	1V, 1MHz	8.0	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.18%	
	C1005NP0829	C1005NP0829	1V, 1MHz	8.2	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.18%	
	C1005NP0909	C1005NP0909	1V, 1MHz	9.0	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.17%	
	C1005NP0919	C1005NP0919	1V, 1MHz	9.1	pF	±0.5pF,±0.25pF,±0.1pF	0.50	±0.05	±0.05	0.17%	
	C1005NP0100	C1005NP0100	1V, 1MHz	10	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.17%	
	C1005NP0110	C1005NP0110	1V, 1MHz	11	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.16%	
	C1005NP0120	C1005NP0120	1V, 1MHz	12	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.16%	
	C1005NP0150	C1005NP0150	1V, 1MHz	15	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.14%	
	C1005NP0160	C1005NP0160	1V, 1MHz	16	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.14%	
	C1005NP0180	C1005NP0180	1V, 1MHz	18	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.13%	
C1005NP0200	C1005NP0200	1V, 1MHz	20	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.13%		
C1005NP0220	C1005NP0220	1V, 1MHz	22	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.12%		
C1005NP0240	C1005NP0240	1V, 1MHz	24	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.11%		
C1005NP0270	C1005NP0270	1V, 1MHz	27	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.11%		
C1005NP0300	C1005NP0300	1V, 1MHz	30	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0330	C1005NP0330	1V, 1MHz	33	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0360	C1005NP0360	1V, 1MHz	36	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0390	C1005NP0390	1V, 1MHz	39	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0430	C1005NP0430	1V, 1MHz	43	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0470	C1005NP0470	1V, 1MHz	47	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0510	C1005NP0510	1V, 1MHz	51	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0560	C1005NP0560	1V, 1MHz	56	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0620	C1005NP0620	1V, 1MHz	62	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0680	C1005NP0680	1V, 1MHz	68	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0750	C1005NP0750	1V, 1MHz	75	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0820	C1005NP0820	1V, 1MHz	82	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0910	C1005NP0910	1V, 1MHz	91	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0101	C1005NP0101	1V, 1MHz	100	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0121	C1005NP0121	1V, 1MHz	120	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0151	C1005NP0151	1V, 1MHz	150	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0181	C1005NP0181	1V, 1MHz	180	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0201	C1005NP0201	1V, 1MHz	200	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		
C1005NP0221	C1005NP0221	1V, 1MHz	220	pF	±5%,±2%,±1%	0.50	±0.05	±0.05	0.10%		

□ Tolerance Code: A=±0.05 pF, B=±0.1pF, C=±0.25pF ,D=±0.5pF, F=±1%, G=±2%, J=±5%; Special tolerance on the request.

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing
				Value	Unit			L/W	Thick.		
50V	C1005NP0271 GTS	C1005NP0271 GT	1V, 1MHz	270	pF	±5%, ±2%	0.50	±0.05	±0.05	0.10%	Paper, 10Kpcs
	C1005NP0301 GTS	C1005NP0301 GT	1V, 1MHz	300	pF	±5%, ±2%	0.50	±0.05	±0.05	0.10%	
	C1005NP0331 GTS	C1005NP0331 GT	1V, 1MHz	330	pF	±5%, ±2%	0.50	±0.05	±0.05	0.10%	
	C1005NP0391 GTS	C1005NP0391 GT	1V, 1MHz	390	pF	±5%, ±2%	0.50	±0.05	±0.05	0.10%	
	C1005NP0471 GTS	C1005NP0471 GT	1V, 1MHz	470	pF	±5%, ±2%	0.50	±0.05	±0.05	0.10%	
	C1005NP0561 GTS	C1005NP0561 GT	1V, 1MHz	560	pF	±5%, ±2%	0.50	±0.05	±0.05	0.10%	
	C1005NP0681 GTS	C1005NP0681 GT	1V, 1MHz	680	pF	±5%, ±2%	0.50	±0.05	±0.05	0.10%	
	C1005NP0821 GTS	C1005NP0821 GT	1V, 1MHz	820	pF	±5%, ±2%	0.50	±0.05	±0.05	0.10%	
25V	C1005NP0102 GTS	C1005NP0102 GT	1V, 1MHz	1.0	nF	±5%, ±2%	0.50	±0.05	±0.05	0.10%	Paper, 10Kpcs
16V	C1005NP0308 JFTS	C1005NP0308 JFT	1V, 1MHz	0.3	pF	±0.1pF, ±0.05pF	0.50	±0.05	±0.05	0.25%	Paper, 10Kpcs
	C1005NP0331 JETS	C1005NP0331 JET	1V, 1MHz	33	pF	5%	0.50	±0.05	±0.05	0.25%	Paper, 10Kpcs

● C1608NP0_S Series (EIA0603)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing
				Value	Unit			L/W	Thick.		
50V	C1608NP0308 GTS	C1608NP0308 GT	1V, 1MHz	0.30	pF	±0.25pF, ±0.1pF, ±0.05pF	0.80	±0.10	±0.10	0.25%	Paper, 4Kpcs
	C1608NP0508 GTS	C1608NP0508 GT	1V, 1MHz	0.50	pF	±0.25pF, ±0.1pF, ±0.05pF	0.80	±0.10	±0.10	0.24%	
	C1608NP0758 GTS	C1608NP0758 GT	1V, 1MHz	0.75	pF	±0.25pF, ±0.1pF, ±0.05pF	0.80	±0.10	±0.10	0.24%	
	C1608NP109 GTS	C1608NP109 GT	1V, 1MHz	1.0	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.24%	
	C1608NP129 GTS	C1608NP129 GT	1V, 1MHz	1.2	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.24%	
	C1608NP159 GTS	C1608NP159 GT	1V, 1MHz	1.5	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.23%	
	C1608NP189 GTS	C1608NP189 GT	1V, 1MHz	1.8	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.23%	
	C1608NP209 GTS	C1608NP209 GT	1V, 1MHz	2.0	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.23%	
	C1608NP229 GTS	C1608NP229 GT	1V, 1MHz	2.2	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.23%	
	C1608NP249 GTS	C1608NP249 GT	1V, 1MHz	2.4	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.22%	
	C1608NP279 GTS	C1608NP279 GT	1V, 1MHz	2.7	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.22%	
	C1608NP309 GTS	C1608NP309 GT	1V, 1MHz	3.0	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.22%	
	C1608NP339 GTS	C1608NP339 GT	1V, 1MHz	3.3	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.21%	
	C1608NP399 GTS	C1608NP399 GT	1V, 1MHz	3.9	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.21%	
	C1608NP409 GTS	C1608NP409 GT	1V, 1MHz	4.0	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.21%	
	C1608NP479 GTS	C1608NP479 GT	1V, 1MHz	4.7	pF	±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.20%	
	C1608NP509 GTS	C1608NP509 GT	1V, 1MHz	5.0	pF	±0.5pF, ±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.20%	
	C1608NP569 GTS	C1608NP569 GT	1V, 1MHz	5.6	pF	±0.5pF, ±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.20%	
	C1608NP609 GTS	C1608NP609 GT	1V, 1MHz	6.0	pF	±0.5pF, ±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.19%	
	C1608NP629 GTS	C1608NP629 GT	1V, 1MHz	6.2	pF	±0.5pF, ±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.19%	
	C1608NP689 GTS	C1608NP689 GT	1V, 1MHz	6.8	pF	±0.5pF, ±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.19%	
	C1608NP709 GTS	C1608NP709 GT	1V, 1MHz	7.0	pF	±0.5pF, ±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.19%	
	C1608NP829 GTS	C1608NP829 GT	1V, 1MHz	8.2	pF	±0.5pF, ±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.18%	
	C1608NP909 GTS	C1608NP909 GT	1V, 1MHz	9.0	pF	±0.5pF, ±0.25pF, ±0.1pF	0.80	±0.10	±0.10	0.17%	
	C1608NP100 GTS	C1608NP100 GT	1V, 1MHz	10	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.17%	
	C1608NP110 GTS	C1608NP110 GT	1V, 1MHz	11	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.16%	
	C1608NP120 GTS	C1608NP120 GT	1V, 1MHz	12	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.16%	
	C1608NP150 GTS	C1608NP150 GT	1V, 1MHz	15	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.14%	
	C1608NP180 GTS	C1608NP180 GT	1V, 1MHz	18	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.13%	
	C1608NP200 GTS	C1608NP200 GT	1V, 1MHz	20	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.13%	
	C1608NP220 GTS	C1608NP220 GT	1V, 1MHz	22	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.12%	
	C1608NP240 GTS	C1608NP240 GT	1V, 1MHz	24	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.11%	
	C1608NP270 GTS	C1608NP270 GT	1V, 1MHz	27	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.11%	
	C1608NP300 GTS	C1608NP300 GT	1V, 1MHz	30	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP330 GTS	C1608NP330 GT	1V, 1MHz	33	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP360 GTS	C1608NP360 GT	1V, 1MHz	36	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP390 GTS	C1608NP390 GT	1V, 1MHz	39	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP430 GTS	C1608NP430 GT	1V, 1MHz	43	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP470 GTS	C1608NP470 GT	1V, 1MHz	47	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP560 GTS	C1608NP560 GT	1V, 1MHz	56	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP620 GTS	C1608NP620 GT	1V, 1MHz	62	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%	
	C1608NP680 GTS	C1608NP680 GT	1V, 1MHz	68	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%	
C1608NP750 GTS	C1608NP750 GT	1V, 1MHz	75	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%		
C1608NP820 GTS	C1608NP820 GT	1V, 1MHz	82	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%		
C1608NP910 GTS	C1608NP910 GT	1V, 1MHz	91	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%		
C1608NP101 GTS	C1608NP101 GT	1V, 1MHz	100	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%		
C1608NP121 GTS	C1608NP121 GT	1V, 1MHz	120	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%		
C1608NP151 GTS	C1608NP151 GT	1V, 1MHz	150	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%		
C1608NP181 GTS	C1608NP181 GT	1V, 1MHz	180	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%		
C1608NP201 GTS	C1608NP201 GT	1V, 1MHz	200	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%		
C1608NP221 GTS	C1608NP221 GT	1V, 1MHz	220	pF	±5%, ±2%, ±1%	0.80	±0.10	±0.10	0.10%		

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing
				Value	Unit			L/W	Thick.		
50V	C1608NP0271□GTS	C1608NP0271□GT	1V, 1MHz	270	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	Paper, 4kpcs
	C1608NP0331□GTS	C1608NP0331□GT	1V, 1MHz	330	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0391□GTS	C1608NP0391□GT	1V, 1MHz	390	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0471□GTS	C1608NP0471□GT	1V, 1MHz	470	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0561□GTS	C1608NP0561□GT	1V, 1MHz	560	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0681□GTS	C1608NP0681□GT	1V, 1MHz	680	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0821□GTS	C1608NP0821□GT	1V, 1MHz	820	pF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0102JGTS	C1608NP0102JGT	1V, 1MHz	1.0	nF	±5%,±2%	0.80	±0.10	±0.10	0.10%	
	C1608NP0122JGTS	C1608NP0122JGT	1V, 1kHz	1.2	nF	5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0152JGTS	C1608NP0152JGT	1V, 1kHz	1.5	nF	5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0182JGTS	C1608NP0182JGT	1V, 1kHz	1.8	nF	5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0222JGTS	C1608NP0222JGT	1V, 1kHz	2.2	nF	5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0272JGTS	C1608NP0272JGT	1V, 1kHz	2.7	nF	5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
25V	C1608NP0332JGTS	C1608NP0332JGT	1V, 1kHz	3.3	nF	5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
16V	C1608NP0103JFTS	C1608NP0103JFT	1V, 1kHz	10	nF	5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0272JETS	C1608NP0272JET	1V, 1kHz	2.7	nF	5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	
	C1608NP0332JETS	C1608NP0332JET	1V, 1kHz	3.3	nF	5%	0.80	+0.15/-0.10	+0.15/-0.10	0.10%	

● C2012NP0_S Series (EIA0805)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing
				Value	Unit			L/W	Thick.		
50V	C2012NP0100□GTS	C2012NP0100□GT	1V, 1MHz	10	pF	±5%,±2%	0.60	±0.15	±0.15	0.17%	Paper, 4kpcs
	C2012NP0120□GTS	C2012NP0120□GT	1V, 1MHz	12	pF	±5%,±2%	0.60	±0.15	±0.15	0.16%	
	C2012NP0150□GTS	C2012NP0150□GT	1V, 1MHz	15	pF	±5%,±2%	0.60	±0.15	±0.15	0.14%	
	C2012NP0180□GTS	C2012NP0180□GT	1V, 1MHz	18	pF	±5%,±2%	0.60	±0.15	±0.15	0.13%	
	C2012NP0200□GTS	C2012NP0200□GT	1V, 1MHz	20	pF	±5%,±2%	0.60	±0.15	±0.15	0.13%	
	C2012NP0220□GTS	C2012NP0220□GT	1V, 1MHz	22	pF	±5%,±2%	0.60	±0.15	±0.15	0.12%	
	C2012NP0270□GTS	C2012NP0270□GT	1V, 1MHz	27	pF	±5%,±2%	0.60	±0.15	±0.15	0.11%	
	C2012NP0300□GTS	C2012NP0300□GT	1V, 1MHz	30	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
	C2012NP0330□GTS	C2012NP0330□GT	1V, 1MHz	33	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
	C2012NP0360□GTS	C2012NP0360□GT	1V, 1MHz	36	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
	C2012NP0470□GTS	C2012NP0470□GT	1V, 1MHz	47	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
	C2012NP0680□GTS	C2012NP0680□GT	1V, 1MHz	68	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
	C2012NP0820□GTS	C2012NP0820□GT	1V, 1MHz	82	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
	C2012NP0101□GTS	C2012NP0101□GT	1V, 1MHz	100	pF	±5%,±2%	0.60	±0.15	±0.15	0.10%	
	C2012NP0121□GTS	C2012NP0121□GT	1V, 1MHz	120	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0151□GTS	C2012NP0151□GT	1V, 1MHz	150	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0201□GTS	C2012NP0201□GT	1V, 1MHz	200	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0221□GTS	C2012NP0221□GT	1V, 1MHz	220	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0271□GTS	C2012NP0271□GT	1V, 1MHz	270	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0331□GTS	C2012NP0331□GT	1V, 1MHz	330	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0391□GTS	C2012NP0391□GT	1V, 1MHz	390	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0471□GTS	C2012NP0471□GT	1V, 1MHz	470	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0561□GTS	C2012NP0561□GT	1V, 1MHz	560	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0681□GTS	C2012NP0681□GT	1V, 1MHz	680	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0821□GTS	C2012NP0821□GT	1V, 1MHz	820	pF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0102JGTS	C2012NP0102JGT	1V, 1MHz	1.0	nF	5%	0.60	±0.15	±0.15	0.10%	
	C2012NP0122JGTS	C2012NP0122JGT	1V, 1kHz	1.2	nF	5%	0.85	±0.15	±0.15	0.10%	
	C2012NP0152JGTS	C2012NP0152JGT	1V, 1kHz	1.5	nF	5%	0.85	±0.15	±0.15	0.10%	
	C2012NP0182JGTS	C2012NP0182JGT	1V, 1kHz	1.8	nF	5%	0.85	±0.15	±0.15	0.10%	
	C2012NP0222JGTS	C2012NP0222JGT	1V, 1kHz	2.2	nF	5%	0.85	±0.15	±0.15	0.10%	
	C2012NP0272JGTS	C2012NP0272JGT	1V, 1kHz	2.7	nF	5%	0.85	±0.15	±0.15	0.10%	
	C2012NP0332JGTS	C2012NP0332JGT	1V, 1kHz	3.3	nF	5%	0.85	±0.15	±0.15	0.10%	
	C2012NP0392JGTS	C2012NP0392JGT	1V, 1kHz	3.9	nF	5%	0.85	±0.15	±0.15	0.10%	
	C2012NP0472JGTS	C2012NP0472JGT	1V, 1kHz	4.7	nF	5%	0.85	±0.15	±0.15	0.10%	
	C2012NP0272JGPS	C2012NP0272JGP	1V, 1kHz	2.7	nF	5%	1.25	±0.15	±0.20	0.10%	
	C2012NP0332JGPS	C2012NP0332JGP	1V, 1kHz	3.3	nF	5%	1.25	±0.15	±0.20	0.10%	
	C2012NP0392JGPS	C2012NP0392JGP	1V, 1kHz	3.9	nF	5%	1.25	±0.15	±0.20	0.10%	
	C2012NP0472JGPS	C2012NP0472JGP	1V, 1kHz	4.7	nF	5%	1.25	±0.15	±0.20	0.10%	
	C2012NP0562JGPS	C2012NP0562JGP	1V, 1kHz	5.6	nF	5%	1.25	±0.15	±0.20	0.10%	
	C2012NP0682JGPS	C2012NP0682JGP	1V, 1kHz	6.8	nF	5%	1.25	±0.15	±0.20	0.10%	
	C2012NP0822JGPS	C2012NP0822JGP	1V, 1kHz	8.2	nF	5%	1.25	±0.15	±0.20	0.10%	
	C2012NP0103JGTS	C2012NP0103JGT	1V, 1kHz	10	nF	5%	0.85	±0.15	±0.10	0.10%	
C2012NP0103JGPS	C2012NP0103JGP	1V, 1kHz	10	nF	5%	1.25	±0.15	±0.20	0.10%	Embossed, 3kpcs	

□ Tolerance Code: A=±0.05 pF, B=±0.1pF, C=±0.25pF, D=±0.5pF, F=±1%, G=±2%, J=±5%; Special tolerance on the request.

● C3216NP0_S Series (EIA1206)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing
				Value	Unit			L/W	Thick.		
50V	C3216NP0123JGTS	C3216NP0123JGT	1V, 1kHz	12	nF	±5%	0.85	±0.15	±0.10	0.10%	Paper, 4kpcs
	C3216NP0153JGTS	C3216NP0153JGT	1V, 1kHz	15	nF	±5%	0.85	±0.15	±0.10	0.10%	
	C3216NP0183JGTS	C3216NP0183JGT	1V, 1kHz	18	nF	±5%	0.85	±0.15	±0.10	0.10%	
	C3216NP0223JGTS	C3216NP0223JGT	1V, 1kHz	22	nF	±5%	0.85	±0.15	±0.10	0.10%	
	C3216NP0273JGTS	C3216NP0273JGT	1V, 1kHz	27	nF	±5%	0.85	±0.15	±0.10	0.10%	
	C3216NP0333JGTS	C3216NP0333JGT	1V, 1kHz	33	nF	±5%	0.85	±0.15	±0.10	0.10%	
	C3216NP0473JGPS	C3216NP0473JGP	1V, 1kHz	47	nF	±5%	1.15	±0.15	±0.15	0.10%	Embossed, 3kpcs
16V	C3216NP0123JETS	C3216NP0123JET	1V, 1kHz	12	nF	±5%	0.85	±0.15	±0.10	0.10%	Paper, 4kpcs
	C3216NP0153JETS	C3216NP0153JET	1V, 1kHz	15	nF	±5%	0.85	±0.15	±0.10	0.10%	
	C3216NP0183JETS	C3216NP0183JET	1V, 1kHz	18	nF	±5%	0.85	±0.15	±0.10	0.10%	
	C3216NP0223JETS	C3216NP0223JET	1V, 1kHz	22	nF	±5%	0.85	±0.15	±0.10	0.10%	
	C3216NP0273JETS	C3216NP0273JET	1V, 1kHz	27	nF	±5%	0.85	±0.15	±0.10	0.10%	
	C3216NP0333JETS	C3216NP0333JET	1V, 1kHz	33	nF	±5%	0.85	±0.15	±0.10	0.10%	
	C3216NP0393JEPS	C3216NP0393JEP	1V, 1kHz	39	nF	±5%	1.60	±0.15	±0.20	0.10%	Embossed, 2kpcs

□ Tolerance Code: A=±0.05 pF, B=±0.1pF, C=±0.25pF ,D=±0.5pF, F=±1%, G=±2%, J=±5%; Special tolerance on the request.

● Class II: High Dielectric Constant Type

■ Feature

1. High volumetric efficiency
2. High insulation resistance
3. RoHS compliant

■ Application

1. Blocking
2. Coupling
3. Timing
4. Bypassing
5. Frequency discriminating
6. Flittering

■ Part Number & Characteristic

■ X5R Series

● C0603X5R Series(EIA0201)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
25V	C0603X5R103□FTS	C0603X5R103□FT	1V, 1kHz	100	nF	±10%, ±20%	0.30	± 0.03	± 0.03	5.0%	Paper, 15Kpcs	(II)*
	C0603X5R104□FTS	C0603X5R104□FT	1V, 1kHz	100	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R103□ETS	C0603X5R103□ET	1V, 1kHz	10	nF	±10%, ±20%	0.30	± 0.03	± 0.03	5.0%		(II)
16V	C0603X5R223□ETS	C0603X5R223□ET	1V, 1kHz	22	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%	Paper, 15Kpcs	(II)*
	C0603X5R104□ETS	C0603X5R104□ET	1V, 1kHz	100	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R224□ETS	C0603X5R224□ET	1V, 1kHz	220	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
10V	C0603X5R222□DTS	C0603X5R222□DT	1V, 1kHz	2.2	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%	Paper, 15Kpcs	(I)
	C0603X5R332□DTS	C0603X5R332□DT	1V, 1kHz	3.3	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(I)
	C0603X5R472□DTS	C0603X5R472□DT	1V, 1kHz	4.7	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(I)
	C0603X5R562□DTS	C0603X5R562□DT	1V, 1kHz	5.6	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(I)
	C0603X5R682□DTS	C0603X5R682□DT	1V, 1kHz	6.8	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(I)
	C0603X5R822□DTS	C0603X5R822□DT	1V, 1kHz	8.2	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(I)
	C0603X5R103□DTS	C0603X5R103□DT	1V, 1kHz	10	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(I)
	C0603X5R153□DTS	C0603X5R153□DT	1V, 1kHz	15	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(II)
	C0603X5R223□DTS	C0603X5R223□DT	1V, 1kHz	22	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(II)
	C0603X5R333□DTS	C0603X5R333□DT	1V, 1kHz	33	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(II)
	C0603X5R473□DTS	C0603X5R473□DT	1V, 1kHz	47	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(II)
	C0603X5R563□DTS	C0603X5R563□DT	1V, 1kHz	56	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(II)
	C0603X5R683□DTS	C0603X5R683□DT	1V, 1kHz	68	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(II)
	C0603X5R823□DTS	C0603X5R823□DT	1V, 1kHz	82	nF	±10%, ±20%	0.30	± 0.03	± 0.03	7.5%		(II)
	C0603X5R104□DTS	C0603X5R104□DT	0.5V, 1kHz	100	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
C0603X5R224□DTS	C0603X5R224□DT	0.5V, 1kHz	220	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%	(II)*		
C0603X5R474□DTS	C0603X5R474□DT	0.5V, 1kHz	470	nF	±10%, ±20%	0.30	± 0.03	± 0.03	12.5%	(II)*		
C0603X5R105MDTS	C0603X5R105MDT	1V, 1kHz	1.0	uF	±20%	0.30	±0.09	±0.09	12.5%	(II)*		
C0603X5R225MDTS	C0603X5R225MDT	1V, 1kHz	2.2	uF	±20%	0.30	±0.09	±0.09	12.5%	(II)*		
6.3V	C0603X5R222□CTS	C0603X5R222□CT	1V, 1kHz	2.2	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%	Paper, 15Kpcs	(I)
	C0603X5R332□CTS	C0603X5R332□CT	1V, 1kHz	3.3	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(I)
	C0603X5R472□CTS	C0603X5R472□CT	1V, 1kHz	4.7	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(I)
	C0603X5R562□CTS	C0603X5R562□CT	1V, 1kHz	5.6	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(I)
	C0603X5R682□CTS	C0603X5R682□CT	1V, 1kHz	6.8	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(I)
	C0603X5R822□CTS	C0603X5R822□CT	1V, 1kHz	8.2	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(I)
	C0603X5R103□CTS	C0603X5R103□CT	1V, 1kHz	10	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(I)
	C0603X5R223□CTS	C0603X5R223□CT	1V, 1kHz	22	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R333□CTS	C0603X5R333□CT	1V, 1kHz	33	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R473□CTS	C0603X5R473□CT	1V, 1kHz	47	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R563□CTS	C0603X5R563□CT	1V, 1kHz	56	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R683□CTS	C0603X5R683□CT	1V, 1kHz	68	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R823□CTS	C0603X5R823□CT	1V, 1kHz	82	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R104□CTS	C0603X5R104□CT	0.5V, 1kHz	100	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)
	C0603X5R224□CTS	C0603X5R224□CT	0.5V, 1kHz	220	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%		(II)*
C0603X5R334□CTS	C0603X5R334□CT	0.5V, 1kHz	330	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%	(II)*		
C0603X5R474□CTS	C0603X5R474□CT	0.5V, 1kHz	470	nF	±10%, ±20%	0.30	± 0.03	± 0.03	12.5%	(II)*		
C0603X5R105□CTS	C0603X5R105□CT	0.5V, 1kHz	1.0	uF	±10%, ±20%	0.30	±0.05	±0.05	12.5%	(II)*		
C0603X5R225MCTS	C0603X5R225MCT	0.5V, 1kHz	2.2	uF	±20%	0.30	±0.09	±0.09	20.0%	(II)*		
4V	C0603X5R224□BTS	C0603X5R224□BT	0.5V, 1kHz	220	nF	±10%, ±20%	0.30	± 0.03	± 0.03	10.0%	Paper, 15Kpcs	(II)
	C0603X5R474□BTS	C0603X5R474□BT	0.5V, 1kHz	470	nF	±10%, ±20%	0.30	± 0.03	± 0.03	12.5%		(II)*
	C0603X5R105□BTS	C0603X5R105□BT	0.5V, 1kHz	1.0	uF	±10%, ±20%	0.30	±0.05	±0.05	10.0%		(II)*

● C1005X5R Series (EIA0402)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C1005X5R103KGT	C1005X5R103KGT	1V, 1kHz	10	nF	±10%	0.50	±0.05	±0.05	5.0%	Paper, 10kpcs	(I)
	C1005X5R473KGT	C1005X5R473KGT	1V, 1kHz	47	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R104□GTS	C1005X5R104□GT	1V, 1kHz	100	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
35V	C1005X5R105□NTS	C1005X5R105□NT	1V, 1kHz	1.0	uF	±10%, ±20%	0.50	±0.10	±0.10	10.0%	Paper, 10kpcs	(II)*
	C1005X5R225KNTS	C1005X5R225KNT	1V, 1kHz	2.2	uF	±10%	0.50	±0.10	±0.10	10.0%		(II)*

□ Tolerance Code: J=±5%, K=±10%, M=±20% ;Special tolerance on the request.

(II)* High temperature load life test are applicable in rated voltage *100%

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
25V	C1005X5R223KFTS	C1005X5R223KFT	1V, 1kHz	22	nF	±10%	0.50	±0.05	±0.05	3.0%	Paper, 10kpcs	(I)
	C1005X5R683KFTS	C1005X5R683KFT	1V, 1kHz	68	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R104□FTS	C1005X5R104□FT	1V, 1kHz	100	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R224□FTS	C1005X5R224□FT	1V, 1kHz	220	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R474KFTS	C1005X5R474□FT	1V, 1kHz	470	nF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)
	C1005X5R105□FTS	C1005X5R105□FT	1V, 1kHz	1.0	uF	±10%, ±20%	0.50	±0.10	±0.10	12.5%		(II)*
16V	C1005X5R225□FTS	C1005X5R225□FT	1V, 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	10.0%	Paper, 10kpcs	(II)
	C1005X5R153□ETS	C1005X5R153□ET	1V, 1kHz	15	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R223□ETS	C1005X5R223□ET	1V, 1kHz	22	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R333□ETS	C1005X5R333□ET	1V, 1kHz	33	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R473□ETS	C1005X5R473□ET	1V, 1kHz	47	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R563□ETS	C1005X5R563□ET	1V, 1kHz	56	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R683□ETS	C1005X5R683□ET	1V, 1kHz	68	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R823□ETS	C1005X5R823□ET	1V, 1kHz	82	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R104□ETS	C1005X5R104□ET	1V, 1kHz	100	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X5R124□ETS	C1005X5R124□ET	1V, 1kHz	120	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%		(II)
	C1005X5R154□ETS	C1005X5R154□ET	1V, 1kHz	150	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%		(II)
	C1005X5R184□ETS	C1005X5R184□ET	1V, 1kHz	180	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%		(II)
	C1005X5R224□ETS	C1005X5R224□ET	1V, 1kHz	220	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R474□ETS	C1005X5R474□ET	1V, 1kHz	470	nF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)
	C1005X5R684□ETS	C1005X5R684□ET	1V, 1kHz	680	nF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)
	10V	C1005X5R105□ETS	C1005X5R105□ET	1V, 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05		12.5%
C1005X5R225□ETS		C1005X5R225□ET	1V, 1kHz	2.2	uF	±10%, ±20%	0.50	±0.20	±0.20	12.5%	(II)*	
C1005X5R475METS		C1005X5R475MET	1V, 1kHz	4.7	uF	±20%	0.50	±0.20	±0.20	12.5%	(II)*	
C1005X5R153□DTS		C1005X5R153□DT	1V, 1kHz	15	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(I)	
C1005X5R223□DTS		C1005X5R223□DT	1V, 1kHz	22	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(I)	
C1005X5R333□DTS		C1005X5R333□DT	1V, 1kHz	33	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(I)	
C1005X5R473□DTS		C1005X5R473□DT	1V, 1kHz	47	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(I)	
C1005X5R563□DTS		C1005X5R563□DT	1V, 1kHz	56	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(I)	
C1005X5R683□DTS		C1005X5R683□DT	1V, 1kHz	68	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(I)	
C1005X5R823□DTS		C1005X5R823□DT	1V, 1kHz	82	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(I)	
C1005X5R104□DTS		C1005X5R104□DT	1V, 1kHz	100	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(I)	
C1005X5R124□DTS		C1005X5R124□DT	1V, 1kHz	120	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(II)	
C1005X5R154□DTS		C1005X5R154□DT	1V, 1kHz	150	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(II)	
C1005X5R184□DTS		C1005X5R184□DT	1V, 1kHz	180	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(II)	
C1005X5R224□DTS		C1005X5R224□DT	1V, 1kHz	220	nF	±10%, ±20%	0.50	±0.05	±0.05	7.5%	(II)	
6.3V		C1005X5R334□DTS	C1005X5R334□DT	1V, 1kHz	330	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	Paper, 10kpcs
	C1005X5R394□DTS	C1005X5R394□DT	1V, 1kHz	390	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	(II)	
	C1005X5R474□DTS	C1005X5R474□DT	1V, 1kHz	470	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	(II)	
	C1005X5R684□DTS	C1005X5R684□DT	1V, 1kHz	680	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	(II)	
	C1005X5R105□DTS	C1005X5R105□DT	1V, 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	(II)	
	C1005X5R225□DTS	C1005X5R225□DT	0.5V, 1kHz	2.2	uF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	(II)*	
	C1005X5R475□DTS	C1005X5R475□DT	1V, 1kHz	4.7	uF	±10%, ±20%	0.50	±0.15	±0.15	12.5%	(II)*	
	C1005X5R106MDTS	C1005X5R106MDT	0.5V, 1kHz	10	uF	±20%	0.50	±0.20	±0.20	12.5%	(II)*	
	C1005X5R223KCTS	C1005X5R223KCT	1V, 1kHz	22	nF	±10%	0.50	±0.05	±0.05	7.5%	(I)	
	C1005X5R224□CTS	C1005X5R224□CT	1V, 1kHz	220	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	(II)	
4V	C1005X5R334□CTS	C1005X5R334□CT	1V, 1kHz	330	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	Paper, 10kpcs	(II)
	C1005X5R474□CTS	C1005X5R474□CT	1V, 1kHz	470	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R684□CTS	C1005X5R684□CT	1V, 1kHz	680	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R105MCTSA		1V, 1kHz	1.0	uF	±20%	0.30	±0.05	±0.03	12.5%		(II)*
	C1005X5R105□CTS	C1005X5R105□CT	0.5V, 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)*
	C1005X5R225MCTSA		0.5V, 1kHz	2.2	uF	±20%	0.30	±0.05	±0.03	10.0%		(II)*
	C1005X5R225□CTS	C1005X5R225□CT	0.5V, 1kHz	2.2	uF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)*
	C1005X5R475MCTSA		0.5V, 1kHz	4.7	uF	±20%	0.30	±0.20	±0.03	10.0%		(II)*
	C1005X5R475□CTS	C1005X5R475□CT	0.5V, 1kHz	4.7	uF	±10%, ±20%	0.50	±0.15	±0.15	10.0%		(II)*
	C1005X5R106MCTS	C1005X5R106MCT	0.5V, 1kHz	10	uF	±20%	0.50	±0.20	±0.20	15.0%		(II)*
4V	C1005X5R105□BTS	C1005X5R105□BT	1V, 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	15.0%	Paper, 10kpcs	(II)
	C1005X5R225□BTS	C1005X5R225□BT	0.5V, 1kHz	2.2	uF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X5R225MBTSA		0.5V, 1kHz	2.2	uF	±20%	0.30	±0.05	±0.03	10.0%		(II)
	C1005X5R475□BTS	C1005X5R475□BT	0.5V, 1kHz	4.7	uF	±10%, ±20%	0.50	±0.15	±0.15	10.0%		(II)
	C1005X5R106MBTS	C1005X5R106MBT	0.5V, 1kHz	10	uF	±20%	0.50	±0.20	±0.20	15.0%		(II)

● C1608X5R Series (EIA0603)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C1608X5R474□GTS	C1608X5R474□GT	1V, 1kHz	470	nF	±10%, ±20%	0.80	±0.15	±0.15	10.0%	Paper, 4kpcs	(II)
	C1608X5R105□GTS	C1608X5R105□GT	1V, 1kHz	1.0	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%		(II)
	C1608X5R225□GTS	C1608X5R225□GT	1V, 1kHz	2.2	uF	±10%, ±20%	0.80	±0.20	±0.20	10.0%		(II)
35V	C1608X5R105□NTS	C1608X5R105□NT	1V, 1kHz	1.0	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%	Paper, 4kpcs	(II)
	C1608X5R225□NTS	C1608X5R225□NT	1V, 1kHz	2.2	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%		(II)*
	C1608X5R475□NTS	C1608X5R475□NT	1V, 1kHz	4.7	uF	±10%, ±20%	0.80	±0.20	±0.20	10.0%		(II)*
25V	C1608X5R106MNTS	C1608X5R106MNT	1V, 1kHz	10.0	uF	±20%	0.80	±0.20	±0.20	10.0%	Paper, 4kpcs	(II)*
	C1608X5R104□FTS	C1608X5R104□FT	1V, 1kHz	100	nF	±10%, ±20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X5R224□FTS	C1608X5R224□FT	1V, 1kHz	220	nF	±10%, ±20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X5R474□FTS	C1608X5R474□FT	1V, 1kHz	470	nF	±10%, ±20%	0.80	±0.10	±0.10	5.0%		(II)
	C1608X5R105□FTS	C1608X5R105□FT	1V, 1kHz	1.0	uF	±10%, ±20%	0.80	±0.15	±0.15	10.0%		(II)
	C1608X5R105□FTSB		1V, 1kHz	1.0	uF	±10%, ±20%	0.50	±0.10	+0/-0.10	12.5%		(II)*
	C1608X5R225□FTS	C1608X5R225□FT	1V, 1kHz	2.2	uF	±10%, ±20%	0.80	±0.15	±0.15	10.0%		(II)
16V	C1608X5R475□FTS	C1608X5R475□FT	1V, 1kHz	4.7	uF	±10%, ±20%	0.80	±0.20	±0.20	10.0%	Paper, 4kpcs	(II)
	C1608X5R106MFTS	C1608X5R106MFT	0.5V, 1kHz	10	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)
	C1608X5R104□ETS	C1608X5R104□ET	1V, 1kHz	100	nF	±10%, ±20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X5R224□ETS	C1608X5R224□ET	1V, 1kHz	220	nF	±10%, ±20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X5R334□ETS	C1608X5R334□ET	1V, 1kHz	330	nF	±10%, ±20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X5R474□ETS	C1608X5R474□ET	1V, 1kHz	470	nF	±10%, ±20%	0.80	±0.10	±0.10	3.5%		(II)
	C1608X5R684□ETS	C1608X5R684□ET	1V, 1kHz	680	nF	±10%, ±20%	0.80	±0.10	±0.10	7.5%		(II)
	C1608X5R105□ETS	C1608X5R105□ET	1V, 1kHz	1.0	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%		(II)
	C1608X5R105□ETSQ		0.5V, 1kHz	1.0	uF	±10%, ±20%	0.45	±0.10	±0.05	10.0%		(II)
	C1608X5R225□ETS	C1608X5R225□ET	1V, 1kHz	2.2	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%		(II)
	C1608X5R475□ETS	C1608X5R475□ET	1V, 1kHz	4.7	uF	±10%, ±20%	0.80	±0.10	±0.15	10.0%		(II)*
	C1608X5R106□ETS	C1608X5R106□ET	1V, 1kHz	10.0	uF	±10%, ±20%	0.80	±0.20	±0.20	10.0%		(II)*
10V	C1608X5R104□DTS	C1608X5R104□DT	1V, 1kHz	100	nF	±10%, ±20%	0.80	±0.10	±0.10	7.5%	Paper, 4kpcs	(I)
	C1608X5R224□DTS	C1608X5R224□DT	1V, 1kHz	220	nF	±10%, ±20%	0.80	±0.10	±0.10	7.5%		(I)
	C1608X5R334□DTS	C1608X5R334□DT	1V, 1kHz	330	nF	±10%, ±20%	0.80	±0.10	±0.10	7.5%		(I)
	C1608X5R474□DTS	C1608X5R474□DT	1V, 1kHz	470	nF	±10%, ±20%	0.80	±0.10	±0.10	7.5%		(I)
	C1608X5R684□DTS	C1608X5R684□DT	1V, 1kHz	680	nF	±10%, ±20%	0.80	±0.10	±0.10	7.5%		(I)
	C1608X5R105□DTS	C1608X5R105□DT	1V, 1kHz	1.0	uF	±10%, ±20%	0.80	±0.10	±0.10	7.5%		(II)
	C1608X5R105□DTSQ		1V, 1kHz	1.0	uF	±10%, ±20%	0.45	±0.10	±0.05	7.5%		(II)
	C1608X5R225□DTS	C1608X5R225□DT	1V, 1kHz	2.2	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%		(II)
	C1608X5R225□DTSQ		0.5V, 1kHz	2.2	uF	±10%, ±20%	0.45	±0.10	±0.05	10.0%		(II)*
	C1608X5R335□DTS	C1608X5R335□DT	1V, 1kHz	3.3	uF	±10%, ±20%	0.80	±0.15	±0.15	10.0%		(II)
	C1608X5R475□DTS	C1608X5R475□DT	1V, 1kHz	4.7	uF	±10%, ±20%	0.80	±0.15	±0.15	10.0%		(II)
	C1608X5R475□DTSB		1V, 1kHz	4.7	uF	±10%, ±20%	0.50	±0.20	±0.05	10.0%		(II)
	C1608X5R106□DTS	C1608X5R106□DT	1V, 1kHz	10	uF	±10%, ±20%	0.80	±0.20	±0.20	10.0%		(II)*
6.3V	C1608X5R226MDTS	C1608X5R226MDT	0.5V, 120Hz	22	uF	±20%	0.80	±0.20	±0.20	10.0%	Paper, 4kpcs	(II)*
	C1608X5R226MDWS	C1608X5R226MDW	0.5V, 120Hz	22	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)*
	C1608X5R105□CTS	C1608X5R105□CT	1V, 1kHz	1.0	uF	±10%, ±20%	0.80	±0.10	±0.10	7.5%		(II)
	C1608X5R225□CTS	C1608X5R225□CT	0.5V, 1kHz	2.2	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%		(II)
	C1608X5R335□CTS	C1608X5R335□CT	1V, 1kHz	3.3	uF	±10%	0.80	±0.15	±0.15	10.0%		(II)
	C1608X5R475□CTS	C1608X5R475□CT	0.5V, 1kHz	4.7	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%		(II)
	C1608X5R106MCTSB		0.5V, 1kHz	10	uF	±20%	0.50	±0.10	±0.10	10.0%		(II)*
4V	C1608X5R106□CTS	C1608X5R106□CT	0.5V, 1kHz	10	uF	±10%, ±20%	0.80	±0.15	±0.15	10.0%	Paper, 4kpcs	(II)*
	C1608X5R226MCTS	C1608X5R226MCT	0.5V, 120Hz	22	uF	±20%	0.80	±0.20	±0.20	15.0%		(II)*
	C1608X5R476MCTS	C1608X5R476MCT	0.5V, 120Hz	47	uF	±20%	0.80	±0.20	±0.20	12.5%		(II)*
	C1608X5R106MBTS	C1608X5R106MBT	0.5V, 1kHz	10	uF	±20%	0.80	±0.10	±0.10	10.0%		(II)
4V	C1608X5R226MBTS	C1608X5R226MBT	0.5V, 120Hz	22	uF	±20%	0.80	±0.20	±0.20	10.0%	Paper, 4kpcs	(II)*
	C1608X5R476MBTS	C1608X5R476MBT	0.5V, 120Hz	47	uF	±20%	0.80	±0.20	±0.20	12.5%		(II)*

● C2012X5R Series (EIA0805)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.	
				Value	Unit			L/W	Thick.				
50V	C2012X5R105□GTS	C2012X5R105□GT	1V, 1kHz	1.0	uF	±10%, ±20%	0.85	±0.15	±0.15	10.0%	Paper, 4kpcs	(II)	
	C2012X5R225□GTS	C2012X5R225□GT	1V, 1kHz	2.2	uF	±10%, ±20%	0.85	±0.20	±0.15	10.0%		(II)	
	C2012X5R105□GPS	C2012X5R105□GP	1V, 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%		Embossed, 3kpcs	(II)
	C2012X5R225□GPS	C2012X5R225□GP	1V, 1kHz	2.2	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%			(II)
	C2012X5R475□GPS	C2012X5R475□GP	1V, 1kHz	4.7	uF	±10%, ±20%	1.25	±0.20	±0.20	10.0%			(II)
	C2012X5R106MGPS	C2012X5R106MGP	1V, 1kHz	10.0	uF	±20%	1.25	±0.20	±0.20	10.0%			(II)*
35V	C2012X5R106KNPS	C2012X5R106KNPS	1V, 1kHz	10.0	uF	±10%	1.25	±0.20	±0.20	10.0%	Embossed, 3kpcs	(II)*	
25V	C2012X5R105□FTS	C2012X5R105□FT	1V, 1kHz	1.0	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4kpcs	(II)	
	C2012X5R105□FPS	C2012X5R105□FP	1V, 1kHz	1.0	uF	±10%, ±20%	1.25	±0.20	±0.20	10.0%		Embossed, 3kpcs	(I)
	C2012X5R225□FTS	C2012X5R225□FT	1V, 1kHz	2.2	uF	±10%, ±20%	0.85	±0.20	±0.10	10.0%		Paper, 4kpcs	(II)
	C2012X5R225□FPS	C2012X5R225□FP	1V, 1kHz	2.2	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%		Embossed, 3kpcs	(II)
	C2012X5R475□FTS	C2012X5R475□FT	1V, 1kHz	4.7	uF	±10%, ±20%	0.85	±0.20	±0.10	10.0%		Paper, 4kpcs	(II)*
	C2012X5R475□FPS	C2012X5R475□FP	1V, 1kHz	4.7	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%		Embossed, 3kpcs	(II)
	C2012X5R106□FTS	C2012X5R106□FT	1V, 1kHz	10	uF	±10%, ±20%	0.85	±0.20	±0.10	12.5%		Paper, 4kpcs	(II)*
	C2012X5R106□FPS	C2012X5R106□FP	1V, 1kHz	10	uF	±10%, ±20%	1.25	±0.20	±0.20	12.5%		Embossed, 3kpcs	(II)*
	C2012X5R226MFPS	C2012X5R226MFP	0.5V, 120Hz	22	uF	±20%	1.25	±0.20	±0.20	15.0%		Embossed, 3kpcs	(II)

□ Tolerance Code: J=±5%, K=±10%, M=±20% ;(II)* High temperature load life test are applicable in rated voltage *100%

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
16V	C2012X5R105 ETS	C2012X5R105 ET	1V, 1kHz	1.0	uF	±10%, ±20%	0.85	±0.15	±0.15	10.0%	Paper, 4kpcs	(II)
	C2012X5R105 EPS	C2012X5R105 EP	1V, 1kHz	1.0	uF	±10%, ±20%	1.25	±0.10	±0.20	5.0%	Embossed, 3kpcs	(I)
	C2012X5R225 EPS	C2012X5R225 EP	1V, 1kHz	2.2	uF	±10%, ±20%	1.25	±0.10	±0.20	5.0%		(II)
	C2012X5R475 ETS	C2012X5R475 ET	0.5V, 1kHz	4.7	uF	±10%, ±20%	0.85	±0.20	±0.10	10.0%	Paper, 4kpcs	(II)
	C2012X5R475 EPS	C2012X5R475 EP	1V, 1kHz	4.7	uF	±10%, ±20%	1.25	±0.10	±0.20	7.5%	Embossed, 3kpcs	(II)
	C2012X5R106 ETS	C2012X5R106 ET	1V, 1kHz	10	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4kpcs	(II)*
	C2012X5R106 EPS	C2012X5R106 EP	0.5V, 1kHz	10	uF	±10%, ±20%	1.25	±0.10	±0.20	10.0%	Embossed, 3kpcs	(II)*
	C2012X5R226METS	C2012X5R226MET	0.5V, 120Hz	22	uF	±20%	0.85	±0.20	±0.10	10.0%	Paper, 4kpcs	(II)*
C2012X5R226MEPS	C2012X5R226MEP	0.5V, 120Hz	22	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3kpcs	(II)*	
10V	C2012X5R225 DTS	C2012X5R225 DT	1V, 1kHz	2.2	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4kpcs	(II)
	C2012X5R335 DPS	C2012X5R335 DP	1V, 1kHz	3.3	uF	±10%, ±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3kpcs	(II)
	C2012X5R475 DPS	C2012X5R475 DP	1V, 1kHz	4.7	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%		(II)
	C2012X5R106 DTS	C2012X5R106 DT	0.5V, 1kHz	10	uF	±10%, ±20%	0.85	±0.20	±0.15	10.0%	Paper, 4kpcs	(II)
	C2012X5R106 DPS	C2012X5R106 DP	0.5V, 1kHz	10	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%	Embossed, 3kpcs	(II)
	C2012X5R226MDTS	C2012X5R226MDT	0.5V, 120Hz	22	uF	±20%	0.85	±0.15	±0.15	10.0%	Paper, 4kpcs	(II)*
	C2012X5R226MDPS	C2012X5R226MDP	0.5V, 120Hz	22	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3kpcs	(II)
	C2012X5R476MDPS	C2012X5R476MDP	0.5V, 120Hz	47	uF	±20%	1.25	±0.20	±0.20	10.0%		(II)*
6.3V	C2012X5R225KCTS	C2012X5R225KCT	1V, 1kHz	2.2	uF	±10%	0.85	±0.15	±0.10	10.0%	Paper, 4kpcs	(II)
	C2012X5R475 CPS	C2012X5R475 CP	0.5V, 1kHz	4.7	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%	Embossed, 3kpcs	(I)
	C2012X5R106 CTS	C2012X5R106 CT	0.5V, 1kHz	10	uF	±10%, ±20%	0.85	±0.20	±0.15	10.0%	Paper, 4kpcs	(II)
	C2012X5R106 CPS	C2012X5R106 CP	0.5V, 1kHz	10	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%	Embossed, 3kpcs	(II)
	C2012X5R226MCTS	C2012X5R226MCT	0.5V, 120Hz	22	uF	±20%	0.85	±0.15	±0.15	10.0%	Paper, 4kpcs	(II)
	C2012X5R226MCPS	C2012X5R226MCP	0.5V, 120Hz	22	uF	±20%	1.25	±0.15	±0.15	10.0%	Embossed, 3kpcs	(II)
	C2012X5R476MCTS	C2012X5R476MCT	0.5V, 120Hz	47	uF	±20%	0.85	±0.20	±0.15	10.0%	Paper, 4kpcs	(II)*
	C2012X5R476MCPS	C2012X5R476MCP	0.5V, 120Hz	47	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3kpcs	(II)*
4V	C2012X5R107MBPS	C2012X5R476MBP	0.5V, 120Hz	100	uF	±20%	1.25	±0.20	±0.20	10.0%	Embossed, 3kpcs	(II)*

● C3216X5R Series (EIA1206)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing
				Value	Unit			L/W	Thick.		
50V	C3216X5R225 GTS	C3216X5R225 GT	1V, 1kHz	2.2	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4kpcs
	C3216X5R475 GTS	C3216X5R475 GT	1V, 1kHz	4.7	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	
	C3216X5R475 GPS	C3216X5R475 GP	1V, 1kHz	4.7	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	Embossed, 2kpcs
	C3216X5R106 GPS	C3216X5R106 GP	1V, 1kHz	10	uF	±10%, ±20%	1.60	±0.20	±0.20	10.0%	
35V	C3216X5R106 NTS	C3216X5R106 NT	1V, 1kHz	10	uF	±10%, ±20%	0.85	±0.15	±0.10	10.0%	Paper, 4kpcs
	C3216X5R106 NPS	C3216X5R106 NP	1V, 1kHz	10	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	Embossed, 2kpcs
25V	C3216X5R105KFTSE		1V, 1kHz	1.0	uF	±10%	0.85	±0.15	±0.10	3.5%	Paper, 4kpcs
	C3216X5R225 FPS	C3216X5R225 FP	1V, 1kHz	2.2	uF	±10%, ±20%	1.60	±0.20	±0.30	5.0%	Embossed, 2kpcs
	C3216X5R475 FPS	C3216X5R475 FP	1V, 1kHz	4.7	uF	±10%, ±20%	1.60	±0.20	±0.30	5.0%	
	C3216X5R106 FPS	C3216X5R106 FP	1V, 1kHz	10	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	Paper, 4kpcs
	C3216X5R106KFTSE	C3216X5R106KFT	1V, 1kHz	10	uF	±10%	0.85	±0.20	±0.10	10.0%	
C3216X5R226 FPS	C3216X5R226 FP	0.5V, 120Hz	22	uF	±10%, ±20%	1.60	±0.30	±0.20	10.0%		
16V	C3216X5R225 EPS	C3216X5R225 EP	1V, 1kHz	2.2	uF	±10%, ±20%	1.60	±0.20	±0.30	5.0%	Embossed, 2kpcs
	C3216X5R475 EPS	C3216X5R475 EP	1V, 1kHz	4.7	uF	±10%, ±20%	1.60	±0.20	±0.30	5.0%	
	C3216X5R106 EPS	C3216X5R106 EP	1V, 1kHz	10	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	Paper, 4kpcs
	C3216X5R226 EPS	C3216X5R226 EP	0.5V, 120Hz	22	uF	±10%, ±20%	1.60	±0.20	±0.20	10.0%	
10V	C3216X5R225 DPS	C3216X5R225 DP	1V, 1kHz	2.2	uF	±10%, ±20%	1.60	±0.20	±0.30	7.5%	Embossed, 2kpcs
	C3216X5R475 DPS	C3216X5R475 DP	1V, 1kHz	4.7	uF	±10%, ±20%	1.60	±0.20	±0.30	7.5%	
	C3216X5R106 DPS	C3216X5R106 DP	1V, 1kHz	10	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	Paper, 4kpcs
	C3216X5R226 DPS	C3216X5R226 DP	0.5V, 120Hz	22	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	
	C3216X5R476 DPS	C3216X5R476 MDP	0.5V, 120Hz	47	uF	±10%, ±20%	1.60	±0.20	±0.30	10.0%	
6.3V	C3216X5R226 CPS	C3216X5R226 CP	0.5V, 120Hz	22	uF	±10%, ±20%	1.60	±0.20	±0.30	15.0%	Embossed, 2kpcs
	C3216X5R476MCPS	C3216X5R476MCP	0.5V, 120Hz	47	uF	±20%	1.60	±0.20	±0.20	10.0%	
	C3216X5R107MCPS	C3216X5R107MCP	0.5V, 120Hz	100	uF	±20%	1.60	±0.30	±0.30	15.0%	
4V	C3216X5R226 BPS	C3216X5R226 BP	0.5V, 120Hz	22	uF	±10%, ±20%	1.60	±0.20	±0.30	15.0%	Embossed, 2kpcs
	C3216X5R476MBPS	C3216X5R476MBP	0.5V, 120Hz	47	uF	±20%	1.60	±0.20	±0.30	15.0%	
	C3216X5R107MBPS	C3216X5R107MBP	0.5V, 120Hz	100	uF	±20%	1.60	±0.30	±0.30	15.0%	
	C3216X5R227MBPSL	C3216X5R227MBP	0.5V, 120Hz	220	uF	±20%	1.60	±0.30	±0.30	15.0%	

● C3225X5R Series (EIA1210)

RV	DARFON P/N	Darfon P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C3225X5R106□GPS	C3225X5R106□GP	1V , 1kHz	10	uF	±10% , ±20%	2.50	±0.30/±0.20	±0.20	5.0%	Embossed, 1kpcs	(II)
35V	C3225X5R106□NPS	C3225X5R106□NP	1V , 1kHz	10	uF	±10% , ±20%	2.50	±0.30/±0.20	±0.20	5.0%	Embossed, 1kpcs	(I)
25V	C3225X5R475□FPS	C3225X5R475□FP	1V , 1kHz	4.7	uF	±10% , ±20%	2.00	±0.30/±0.20	±0.20	10.0%	Embossed, 2kpcs	(I)
	C3225X5R106□FPS	C3225X5R106□FP	1V , 1kHz	10	uF	±10% , ±20%	2.00	±0.30/±0.20	±0.20	10.0%		(I)
16V	C3225X5R226□FPS	C3225X5R226□FP	0.5V , 120Hz	22	uF	±10% , ±20%	2.50	±0.30/±0.20	±0.20	10.0%	Embossed, 1kpcs	(II)
	C3225X5R475□EPS	C3225X5R475□EP	1V , 1kHz	4.7	uF	±10% , ±20%	2.00	±0.30/±0.20	±0.20	5.0%	Embossed, 2kpcs	(I)
	C3225X5R106□EPS	C3225X5R106□EP	1V , 1kHz	10	uF	±10% , ±20%	2.00	±0.30/±0.20	±0.20	5.0%		(I)
	C3225X5R226□EWS	C3225X5R226□EW	0.5V , 120Hz	22	uF	±10% , ±20%	2.50	±0.30/±0.20	±0.20	15.0%	Embossed, 0.5kpcs	(II)
	C3225X5R476□EWS	C3225X5R476□EW	0.5V , 120Hz	47	uF	±10% , ±20%	2.50	±0.30/±0.20	±0.20	15.0%		(II)
	C3225X5R476□EPS	C3225X5R476□EP	0.5V , 120Hz	47	uF	±10% , ±20%	2.50	±0.30/±0.20	±0.20	15.0%	Embossed, 1kpcs	(II)
10V	C3225X5R107MEPS	C3225X5R107MEP	0.5V , 120Hz	100	uF	±20%	2.50	±0.30	±0.30	10.0%	Embossed, 1kpcs	(II)
	C3225X5R226□DPS	C3225X5R226□DP	0.5V , 120Hz	22	uF	±10% , ±20%	2.50	±0.30/±0.20	±0.20	10.0%	Embossed, 1kpcs	(II)
	C3225X5R476□DPS	C3225X5R476□DP	0.5V , 120Hz	47	uF	±10% , ±20%	2.50	±0.30/±0.20	±0.20	10.0%		(II)
C3225X5R107MDPS	C3225X5R107MDP	0.5V , 120Hz	100	uF	±20%	2.50	±0.30/±0.20	±0.30	10.0%	(II)		
6.3V	C3225X5R226□CPS	C3225X5R226□CP	0.5V , 120Hz	22	uF	±10% , ±20%	2.50	±0.30/±0.20	±0.20	10.0%	Embossed, 1kpcs	(II)
	C3225X5R476□CPS	C3225X5R476□CP	0.5V , 120Hz	47	uF	±10% , ±20%	2.50	±0.30/±0.20	±0.20	15.0%		(II)
	C3225X5R107MCPS	C3225X5R107MCP	0.5V , 120Hz	100	uF	±20%	2.50	±0.30	±0.30	15.0%		(II)

□ Tolerance Code: K=±10%, M=±20% ;Special tolerance on the request.;

(II)* High temperature load life test are applicable in rated voltage *100%

- X6S Series
- C0603X6S Series (EIA0201)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
25V	C0603X6S104KFTS	C0603X6S104KFT	1V , 1kHz	100	nF	±10%	0.30	± 0.03	±0.03	10.0%	Paper, 15kpcs	(II)*
16V	C0603X6S104KETS	C0603X6S104KET	1V , 1kHz	100	nF	±10%	0.30	± 0.03	±0.03	10.0%	Paper, 15kpcs	(II)
10V	C0603X6S104KDTS	C0603X6S104KDT	1V , 1kHz	100	nF	±10%	0.30	± 0.03	±0.03	10.0%	Paper, 15kpcs	(II)
6.3V	C0603X6S103□CTS	C0603X6S103□CT	0.5V , 1kHz	10	nF	±10%, ±20%	0.30	± 0.03	±0.03	5.0%	Paper, 15kpcs	(I)
	C0603X6S473□CTS	C0603X6S473□CT	1V , 1kHz	47	nF	±10%, ±20%	0.30	± 0.03	±0.03	10.0%		(I)
	C0603X6S104□CTS	C0603X6S104□CT	1V , 1kHz	100	nF	±10%, ±20%	0.30	± 0.03	±0.03	10.0%		(II)*
	C0603X6S224□CTS	C0603X6S224□CT	0.5V , 1kHz	220	nF	±10%, ±20%	0.30	± 0.03	±0.03	10.0%		(II)*
	C0603X6S105MCTS	C0603X6S105MCT	0.5V , 1kHz	1	uF	±20%	0.30	± 0.09	± 0.09	10.0%		(II)*
4V	C0603X6S104□BTS	C0603X6S104□BT	0.5V , 1kHz	100	nF	±10%, ±20%	0.30	± 0.03	±0.03	10.0%	Paper, 15kpcs	(II)
	C0603X6S224□BTS	C0603X6S224□BT	0.5V , 1kHz	220	nF	±10%, ±20%	0.30	± 0.03	±0.03	10.0%		(II)
	C0603X6S105MBTS	C0603X6S105MBT	0.5V , 1kHz	1	uF	±20%	0.30	± 0.20	±0.20	10.0%		(II)*

- C1005X6S Series (EIA0402)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
16V	C1005X6S105□ETS	C1005X6S105□ET	0.5V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.10	±0.10	12.5%	Paper, 10kpcs	(II)*
10V	C1005X6S105□DTS	C1005X6S105□DT	0.5V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	12.5%	Paper, 10kpcs	(II)*
	C1005X6S225KDTS	C1005X6S225KDT	1V , 1kHz	2.2	uF	±10%	0.50	±0.20	±0.20	10.0%	Paper, 10kpcs	(II)
6.3V	C1005X6S105□CTS	C1005X6S105□CT	0.5V , 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	10.0%	Paper, 10kpcs	(II)*
	C1005X6S225□CTS	C1005X6S225□CT	0.5V , 1kHz	2.2	uF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)*
	C1005X6S475MCTS	C1005X6S475MCT	0.5V , 1kHz	4.7	uF	±20%	0.50	±0.15	±0.15	10.0%		(II)*
4V	C1005X6S106MBTS	C1005X6S106MBT	0.5V , 1kHz	10	uF	±20%	0.50	±0.20	±0.20	10.0%	Paper, 10kpcs	(II)*

- C1608X6S Series (EIA0603)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
16V	C1608X6S225KETS	C1608X6S225KET	1V , 1kHz	2.2	uF	±10%	0.80	±0.10	±0.10	10.0%	Paper, 4kpcs	(II)
	C1608X6S106METS	C1608X6S106MET	1V , 1kHz	10	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)
10V	C1608X6S475KDTS	C1608X6S475KDT	1V , 1kHz	4.7	uF	±10%	0.80	±0.15	±0.15	10.0%	Paper, 4kpcs	(II)
	C1608X6S106MDTS	C1608X6S106MDT	1V , 1kHz	10	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)
6.3V	C1608X6S475□CTS	C1608X6S475□CT	0.5V , 1kHz	4.7	uF	±10%, ±20%	0.80	±0.10	±0.10	10.0%	Paper, 4kpcs	(II)*
	C1608X6S106MCTS	C1608X6S106MCT	0.5V , 120Hz	10	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)
	C1608X6S226MCTS	C1608X6S226MCT	0.5V , 120Hz	22	uF	±20%	0.80	±0.20	±0.20	10.0%		(II)*

- C2012X6S Series (EIA0805)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C2012X6S225KGPS	C2012X6S225KGP	1V , 1kHz	2.2	uF	±10%	1.25	±0.20	±0.20	10.0%	Embossed, 3kpcs	(II)
	C2012X6S475KGPS	C2012X6S475KGP	1V , 1kHz	4.7	uF	±10%	1.25	±0.20	±0.20	10.0%		(II)
25V	C2012X6S106KFPS	C2012X6S106KFP	0.5V , 1kHz	10	uF	±10%	1.25	±0.15	±0.20	12.5%	Embossed, 3kpcs	(II)*
16V	C2012X6S106KEPS	C2012X6S106KEP	0.5V , 1kHz	10	uF	±10%	1.25	±0.15	±0.15	10.0%	Embossed, 3kpcs	(II)*
10V	C2012X6S106KDPS	C2012X6S106KDP	0.5V , 1kHz	10	uF	±10%	1.25	±0.15	±0.15	10.0%	Embossed, 3kpcs	(II)*
	C2012X6S226MDPS	C2012X6S226MDP	0.5V , 120Hz	22	uF	±20%	1.25	±0.20	±0.20	10.0%		(II)
6.3V	C2012X6S226MCPS	C2012X6S226MCP	0.5V , 120Hz	22	uF	±20%	1.25	±0.15	±0.15	10.0%	Embossed, 3kpcs	(II)*
4V	C2012X6S226MBPS	C2012X6S226MBP	0.5V , 120Hz	22	uF	±20%	1.25	±0.15	±0.15	10.0%	Embossed, 3kpcs	(II)
	C2012X6S476MBPS	C2012X6S476MBP	0.5V , 120Hz	47	uF	±20%	1.25	±0.20	±0.20	10.0%		(II)*

- C3216X6S Series (EIA1206)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
25V	C3216X6S106KFPS	C3216X6S106KFP	1V , 1kHz	10	uF	±10%	1.60	±0.20	±0.20	10.0%	Embossed, 2kpcs	(II)
6.3V	C3216X6S476MCPS	C3216X6S476MCP	0.5V , 120Hz	47	uF	±20%	1.60	±0.20	±0.20	10.0%	Embossed, 2kpcs	(II)
4V	C3216X6S226MBTS	C3216X6S226MBT	0.5V , 120Hz	22	uF	±20%	0.85	±0.20	±0.10	10.0%	Paper, 4kpcs	(II)

MLCC
General Purpose

■ X7R Series
● C0603X7R Series(EIA0201)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C0603X7R101□GTS	C0603X7R101□GT	1V, 1kHz	100	pF	±10%, ±5%	0.30	±0.03	±0.03	3.0%	Paper, 15Kpcs	(I)
	C0603X7R121□GTS	C0603X7R121□GT	1V, 1kHz	120	pF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R151□GTS	C0603X7R151□GT	1V, 1kHz	150	pF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R181□GTS	C0603X7R181□GT	1V, 1kHz	180	pF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R221□GTS	C0603X7R221□GT	1V, 1kHz	220	pF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R271□GTS	C0603X7R271□GT	1V, 1kHz	270	pF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R331□GTS	C0603X7R331□GT	1V, 1kHz	330	pF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R391□GTS	C0603X7R391□GT	1V, 1kHz	390	pF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R471□GTS	C0603X7R471□GT	1V, 1kHz	470	pF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R561□GTS	C0603X7R561□GT	1V, 1kHz	560	pF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R681□GTS	C0603X7R681□GT	1V, 1kHz	680	pF	±10%, ±5%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R821□GTS	C0603X7R821□GT	1V, 1kHz	820	pF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R102□GTS	C0603X7R102□GT	1V, 1kHz	1.0	nF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R122□GTS	C0603X7R122□GT	1V, 1kHz	1.2	nF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R152□GTS	C0603X7R152□GT	1V, 1kHz	1.5	nF	±10%	0.30	±0.03	±0.03	3.0%		(I)
	C0603X7R182□GTS	C0603X7R182□GT	1V, 1kHz	1.8	nF	±10%	0.30	±0.03	±0.03	3.0%		(I)
C0603X7R222□GTS	C0603X7R222□GT	1V, 1kHz	2.2	nF	±10%	0.30	±0.03	±0.03	3.0%	(I)		
25V	C0603X7R101□FTS	C0603X7R101□FT	1V, 1kHz	100	pF	±10%	0.30	±0.03	±0.03	3.5%	Paper, 15Kpcs	(I)
	C0603X7R121□FTS	C0603X7R121□FT	1V, 1kHz	120	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R151□FTS	C0603X7R151□FT	1V, 1kHz	150	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R181□FTS	C0603X7R181□FT	1V, 1kHz	180	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R221□FTS	C0603X7R221□FT	1V, 1kHz	220	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R271□FTS	C0603X7R271□FT	1V, 1kHz	270	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R331□FTS	C0603X7R331□FT	1V, 1kHz	330	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R391□FTS	C0603X7R391□FT	1V, 1kHz	390	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R471□FTS	C0603X7R471□FT	1V, 1kHz	470	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R561□FTS	C0603X7R561□FT	1V, 1kHz	560	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R681□FTS	C0603X7R681□FT	1V, 1kHz	680	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R821□FTS	C0603X7R821□FT	1V, 1kHz	820	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R102□FTS	C0603X7R102□FT	1V, 1kHz	1.0	nF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R122□FTS	C0603X7R122□FT	1V, 1kHz	1.2	nF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R152□FTS	C0603X7R152□FT	1V, 1kHz	1.5	nF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R182□FTS	C0603X7R182□FT	1V, 1kHz	1.8	nF	±10%	0.30	±0.03	±0.03	3.5%		(I)
C0603X7R222□FTS	C0603X7R222□FT	1V, 1kHz	2.2	nF	±10%	0.30	±0.03	±0.03	3.5%	(I)		
16V	C0603X7R221KETS	C0603X7R221KET	1V, 1kHz	220	pF	±10%	0.30	±0.03	±0.03	3.5%	Paper, 15Kpcs	(I)
	C0603X7R331KETS	C0603X7R331KET	1V, 1kHz	330	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R471KETS	C0603X7R471KET	1V, 1kHz	470	pF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R102□ETS	C0603X7R102□ET	1V, 1kHz	1.0	nF	±10%	0.30	±0.03	±0.03	3.5%		(I)
	C0603X7R272□ETS	C0603X7R272□ET	1V, 1kHz	2.7	nF	±10%, ±5%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R332□ETS	C0603X7R332□ET	1V, 1kHz	3.3	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R392□ETS	C0603X7R392□ET	1V, 1kHz	3.9	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R472□ETS	C0603X7R472□ET	1V, 1kHz	4.7	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R562□ETS	C0603X7R562□ET	1V, 1kHz	5.6	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R682□ETS	C0603X7R682□ET	1V, 1kHz	6.8	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R822□ETS	C0603X7R822□ET	1V, 1kHz	8.2	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
C0603X7R103□ETS	C0603X7R103□ET	1V, 1kHz	10	nF	±10%	0.30	±0.03	±0.03	5.0%	(I)		
10V	C0603X7R182□DTS	C0603X7R182□DT	1V, 1kHz	1.8	nF	±10%	0.30	±0.03	±0.03	5.0%	Paper, 15Kpcs	(I)
	C0603X7R272□DTS	C0603X7R272□DT	1V, 1kHz	2.7	nF	±10%, ±5%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R332□DTS	C0603X7R332□DT	1V, 1kHz	3.3	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R392□DTS	C0603X7R392□DT	1V, 1kHz	3.9	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R472□DTS	C0603X7R472□DT	1V, 1kHz	4.7	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R562□DTS	C0603X7R562□DT	1V, 1kHz	5.6	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R682□DTS	C0603X7R682□DT	1V, 1kHz	6.8	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
	C0603X7R822□DTS	C0603X7R822□DT	1V, 1kHz	8.2	nF	±10%	0.30	±0.03	±0.03	5.0%		(I)
C0603X7R103□DTS	C0603X7R103□DT	1V, 1kHz	10	nF	±10%	0.30	±0.03	±0.03	5.0%	(I)		

□ Tolerance Code: J=±5%, K=±10%, M=±20%; Special tolerance on the request.

(II)* High temperature load life test are applicable in rated voltage *100%

● C1005X7R Series (EIA0402)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C1005X7R101□GTS	C1005X7R101□GT	1V, 1kHz	100	pF	±10%, ±5%	0.50	±0.05	±0.05	3.0%	Paper, 10Kpcs	(I)
	C1005X7R121□GTS	C1005X7R121□GT	1V, 1kHz	120	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R151□GTS	C1005X7R151□GT	1V, 1kHz	150	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R181□GTS	C1005X7R181□GT	1V, 1kHz	180	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R221□GTS	C1005X7R221□GT	1V, 1kHz	220	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R271□GTS	C1005X7R271□GT	1V, 1kHz	270	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R331□GTS	C1005X7R331□GT	1V, 1kHz	330	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R391□GTS	C1005X7R391□GT	1V, 1kHz	390	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R471□GTS	C1005X7R471□GT	1V, 1kHz	470	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R561□GTS	C1005X7R561□GT	1V, 1kHz	560	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R681□GTS	C1005X7R681□GT	1V, 1kHz	680	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R821□GTS	C1005X7R821□GT	1V, 1kHz	820	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R102□GTS	C1005X7R102□GT	1V, 1kHz	1.0	nF	±10%, ±5%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R122□GTS	C1005X7R122□GT	1V, 1kHz	1.2	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R152□GTS	C1005X7R152□GT	1V, 1kHz	1.5	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R182□GTS	C1005X7R182□GT	1V, 1kHz	1.8	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R222□GTS	C1005X7R222□GT	1V, 1kHz	2.2	nF	±10%, ±5%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R272□GTS	C1005X7R272□GT	1V, 1kHz	2.7	nF	±10%, ±5%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R332□GTS	C1005X7R332□GT	1V, 1kHz	3.3	nF	±10%, ±5%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R392□GTS	C1005X7R392□GT	1V, 1kHz	3.9	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R472□GTS	C1005X7R472□GT	1V, 1kHz	4.7	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R562□GTS	C1005X7R562□GT	1V, 1kHz	5.6	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R682□GTS	C1005X7R682□GT	1V, 1kHz	6.8	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R822□GTS	C1005X7R822□GT	1V, 1kHz	8.2	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R103□GTS	C1005X7R103□GT	1V, 1kHz	10	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R123□GTS	C1005X7R123□GT	1V, 1kHz	12	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R153□GTS	C1005X7R153□GT	1V, 1kHz	15	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R223□GTS	C1005X7R223□GT	1V, 1kHz	22	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
C1005X7R473□GTS	C1005X7R473□GT	1V, 1kHz	47	nF	±10%	0.50	±0.05	±0.05	10.0%	(II)		
C1005X7R104□GTS	C1005X7R104□GT	1V, 1kHz	100	nF	±10%	0.50	±0.05	±0.05	10.0%	(II)		
25V	C1005X7R101□FTS	C1005X7R101□FT	1V, 1kHz	100	pF	±10%	0.50	±0.05	±0.05	3.0%	Paper, 10Kpcs	(I)
	C1005X7R121□FTS	C1005X7R121□FT	1V, 1kHz	120	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R151□FTS	C1005X7R151□FT	1V, 1kHz	150	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R181□FTS	C1005X7R181□FT	1V, 1kHz	180	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R221□FTS	C1005X7R221□FT	1V, 1kHz	220	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R271□FTS	C1005X7R271□FT	1V, 1kHz	270	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R331□FTS	C1005X7R331□FT	1V, 1kHz	330	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R391□FTS	C1005X7R391□FT	1V, 1kHz	390	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R471□FTS	C1005X7R471□FT	1V, 1kHz	470	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R561□FTS	C1005X7R561□FT	1V, 1kHz	560	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R681□FTS	C1005X7R681□FT	1V, 1kHz	680	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R821□FTS	C1005X7R821□FT	1V, 1kHz	820	pF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R102□FTS	C1005X7R102□FT	1V, 1kHz	1.0	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R122□FTS	C1005X7R122□FT	1V, 1kHz	1.2	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R152□FTS	C1005X7R152□FT	1V, 1kHz	1.5	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R182□FTS	C1005X7R182□FT	1V, 1kHz	1.8	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R222□FTS	C1005X7R222□FT	1V, 1kHz	2.2	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R272□FTS	C1005X7R272□FT	1V, 1kHz	2.7	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R332□FTS	C1005X7R332□FT	1V, 1kHz	3.3	nF	±10%, ±5%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R392□FTS	C1005X7R392□FT	1V, 1kHz	3.9	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R472□FTS	C1005X7R472□FT	1V, 1kHz	4.7	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R562□FTS	C1005X7R562□FT	1V, 1kHz	5.6	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R682□FTS	C1005X7R682□FT	1V, 1kHz	6.8	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R822□FTS	C1005X7R822□FT	1V, 1kHz	8.2	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R103□FTS	C1005X7R103□FT	1V, 1kHz	10	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R123□FTS	C1005X7R123□FT	1V, 1kHz	12	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R153□FTS	C1005X7R153□FT	1V, 1kHz	15	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
	C1005X7R183□FTS	C1005X7R183□FT	1V, 1kHz	18	nF	±10%	0.50	±0.05	±0.05	3.0%		(I)
C1005X7R223□FTS	C1005X7R223□FT	1V, 1kHz	22	nF	±10%	0.50	±0.05	±0.05	3.0%	(I)		
C1005X7R273□FTS	C1005X7R273□FT	1V, 1kHz	27	nF	±10%	0.50	±0.05	±0.05	3.5%	(I)		
C1005X7R333□FTS	C1005X7R333□FT	1V, 1kHz	33	nF	±10%	0.50	±0.05	±0.05	3.5%	(I)		
C1005X7R473□FTS	C1005X7R473□FT	1V, 1kHz	47	nF	±10%	0.50	±0.05	±0.05	3.5%	(I)		
C1005X7R563□FTS	C1005X7R563□FT	1V, 1kHz	56	nF	±10%	0.50	±0.05	±0.05	3.5%	(I)		
C1005X7R683□FTS	C1005X7R683□FT	1V, 1kHz	68	nF	±10%	0.50	±0.05	±0.05	3.5%	(I)		
C1005X7R104□FTS	C1005X7R104□FT	1V, 1kHz	100	nF	±10%	0.50	±0.05	±0.05	10.0%	(II)		
C1005X7R224□FTS	C1005X7R224□FT	1V, 1kHz	220	nF	±10%	0.50	±0.05	±0.05	10.0%	(II)		
16V	C1005X7R101□ETS	C1005X7R101□ET	1V, 1kHz	100	pF	±10%	0.50	±0.05	±0.05	5.0%	Paper, 10Kpcs	(I)
	C1005X7R121□ETS	C1005X7R121□ET	1V, 1kHz	120	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R151□ETS	C1005X7R151□ET	1V, 1kHz	150	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R181□ETS	C1005X7R181□ET	1V, 1kHz	180	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R221□ETS	C1005X7R221□ET	1V, 1kHz	220	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)

MLCC

General Purpose

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
16V	C1005X7R271□ ETS	C1005X7R271□ ET	1V, 1kHz	270	pF	±10%	0.50	±0.05	±0.05	5.0%	Paper, 10Kpcs	(I)
	C1005X7R331□ ETS	C1005X7R331□ ET	1V, 1kHz	330	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R391□ ETS	C1005X7R391□ ET	1V, 1kHz	390	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R471□ ETS	C1005X7R471□ ET	1V, 1kHz	470	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R561□ ETS	C1005X7R561□ ET	1V, 1kHz	560	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R681□ ETS	C1005X7R681□ ET	1V, 1kHz	680	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R821□ ETS	C1005X7R821□ ET	1V, 1kHz	820	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R102□ ETS	C1005X7R102□ ET	1V, 1kHz	1.0	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R122□ ETS	C1005X7R122□ ET	1V, 1kHz	1.2	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R152□ ETS	C1005X7R152□ ET	1V, 1kHz	1.5	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R182□ ETS	C1005X7R182□ ET	1V, 1kHz	1.8	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R222□ ETS	C1005X7R222□ ET	1V, 1kHz	2.2	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R272□ ETS	C1005X7R272□ ET	1V, 1kHz	2.7	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R332□ ETS	C1005X7R332□ ET	1V, 1kHz	3.3	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R392□ ETS	C1005X7R392□ ET	1V, 1kHz	3.9	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R472□ ETS	C1005X7R472□ ET	1V, 1kHz	4.7	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R562□ ETS	C1005X7R562□ ET	1V, 1kHz	5.6	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R682□ ETS	C1005X7R682□ ET	1V, 1kHz	6.8	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R822□ ETS	C1005X7R822□ ET	1V, 1kHz	8.2	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R103□ ETS	C1005X7R103□ ET	1V, 1kHz	10	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R123□ ETS	C1005X7R123□ ET	1V, 1kHz	12	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R153□ ETS	C1005X7R153□ ET	1V, 1kHz	15	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R183□ ETS	C1005X7R183□ ET	1V, 1kHz	18	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R223□ ETS	C1005X7R223□ ET	1V, 1kHz	22	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
C1005X7R273□ ETS	C1005X7R273□ ET	1V, 1kHz	27	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R333□ ETS	C1005X7R333□ ET	1V, 1kHz	33	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R393□ ETS	C1005X7R393□ ET	1V, 1kHz	39	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R473□ ETS	C1005X7R473□ ET	1V, 1kHz	47	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R563□ ETS	C1005X7R563□ ET	1V, 1kHz	56	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R683□ ETS	C1005X7R683□ ET	1V, 1kHz	68	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R823□ ETS	C1005X7R823□ ET	1V, 1kHz	82	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R104□ ETS	C1005X7R104□ ET	1V, 1kHz	100	nF	±10%, ±20%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R224□ ETS	C1005X7R224□ ET	1V, 1kHz	220	nF	±10%	0.50	±0.05	±0.05	10.0%	(II)		
10V	C1005X7R101□ DTS	C1005X7R101□ DT	1V, 1kHz	100	pF	±10%	0.50	±0.05	±0.05	5.0%	Paper, 10kpcs	(I)
	C1005X7R121□ DTS	C1005X7R121□ DT	1V, 1kHz	120	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R151□ DTS	C1005X7R151□ DT	1V, 1kHz	150	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R181□ DTS	C1005X7R181□ DT	1V, 1kHz	180	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R221□ DTS	C1005X7R221□ DT	1V, 1kHz	220	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R271□ DTS	C1005X7R271□ DT	1V, 1kHz	270	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R331□ DTS	C1005X7R331□ DT	1V, 1kHz	330	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R391□ DTS	C1005X7R391□ DT	1V, 1kHz	390	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R471□ DTS	C1005X7R471□ DT	1V, 1kHz	470	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R561□ DTS	C1005X7R561□ DT	1V, 1kHz	560	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R681□ DTS	C1005X7R681□ DT	1V, 1kHz	680	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R821□ DTS	C1005X7R821□ DT	1V, 1kHz	820	pF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R102□ DTS	C1005X7R102□ DT	1V, 1kHz	1.0	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R122□ DTS	C1005X7R122□ DT	1V, 1kHz	1.2	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R152□ DTS	C1005X7R152□ DT	1V, 1kHz	1.5	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R182□ DTS	C1005X7R182□ DT	1V, 1kHz	1.8	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R222□ DTS	C1005X7R222□ DT	1V, 1kHz	2.2	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R272□ DTS	C1005X7R272□ DT	1V, 1kHz	2.7	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R332□ DTS	C1005X7R332□ DT	1V, 1kHz	3.3	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R392□ DTS	C1005X7R392□ DT	1V, 1kHz	3.9	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R472□ DTS	C1005X7R472□ DT	1V, 1kHz	4.7	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R562□ DTS	C1005X7R562□ DT	1V, 1kHz	5.6	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R682□ DTS	C1005X7R682□ DT	1V, 1kHz	6.8	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
	C1005X7R822□ DTS	C1005X7R822□ DT	1V, 1kHz	8.2	nF	±10%	0.50	±0.05	±0.05	5.0%		(I)
C1005X7R103□ DTS	C1005X7R103□ DT	1V, 1kHz	10	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R123□ DTS	C1005X7R123□ DT	1V, 1kHz	12	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R153□ DTS	C1005X7R153□ DT	1V, 1kHz	15	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R183□ DTS	C1005X7R183□ DT	1V, 1kHz	18	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R223□ DTS	C1005X7R223□ DT	1V, 1kHz	22	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R273□ DTS	C1005X7R273□ DT	1V, 1kHz	27	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R333□ DTS	C1005X7R333□ DT	1V, 1kHz	33	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R393□ DTS	C1005X7R393□ DT	1V, 1kHz	39	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R473□ DTS	C1005X7R473□ DT	1V, 1kHz	47	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R563□ DTS	C1005X7R563□ DT	1V, 1kHz	56	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R683□ DTS	C1005X7R683□ DT	1V, 1kHz	68	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R823□ DTS	C1005X7R823□ DT	1V, 1kHz	82	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R104□ DTS	C1005X7R104□ DT	1V, 1kHz	100	nF	±10%	0.50	±0.05	±0.05	5.0%	(I)		
C1005X7R224□ DTS	C1005X7R224□ DT	1V, 1kHz	220	nF	±10%	0.50	±0.05	±0.05	10.0%	(II)		
C1005X7R474□ DTS	C1005X7R474□ DT	1V, 1kHz	470	nF	±10%	0.50	±0.05	±0.05	10.0%	(II)		
6.3V	C1005X7R473KCTS	C1005X7R473KCT	1V, 1kHz	47	nF	±10%	0.50	±0.05	±0.05	5.0%	Paper, 10kpcs	(I)
	C1005X7R474□ CTS	C1005X7R474□ CT	1V, 1kHz	470	nF	±10%, ±20%	0.50	±0.05	±0.05	10.0%		(II)
	C1005X7R105□ CTS	C1005X7R105□ CT	1V, 1kHz	1.0	uF	±10%, ±20%	0.50	±0.05	±0.05	12.5%		(II)*

□ Tolerance Code: J=±5%, K=±10%, M=±20%.;(II)* High temperature load life test are applicable in rated voltage *100%

● C1608X7R Series (EIA0603)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance (mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C1608X7R101□GTS	C1608X7R101□GT	1V, 1kHz	100	pF	±10%	0.80	±0.10	±0.10	2.5%	Paper, 4kpcs	(I)
	C1608X7R121□GTS	C1608X7R121□GT	1V, 1kHz	120	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R151□GTS	C1608X7R151□GT	1V, 1kHz	150	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R181□GTS	C1608X7R181□GT	1V, 1kHz	180	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R221□GTS	C1608X7R221□GT	1V, 1kHz	220	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R271□GTS	C1608X7R271□GT	1V, 1kHz	270	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R331□GTS	C1608X7R331□GT	1V, 1kHz	330	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R391□GTS	C1608X7R391□GT	1V, 1kHz	390	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R471□GTS	C1608X7R471□GT	1V, 1kHz	470	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R561□GTS	C1608X7R561□GT	1V, 1kHz	560	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R681□GTS	C1608X7R681□GT	1V, 1kHz	680	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R821□GTS	C1608X7R821□GT	1V, 1kHz	820	pF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R102□GTS	C1608X7R102□GT	1V, 1kHz	1.0	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R122□GTS	C1608X7R122□GT	1V, 1kHz	1.2	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R152□GTS	C1608X7R152□GT	1V, 1kHz	1.5	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R182□GTS	C1608X7R182□GT	1V, 1kHz	1.8	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R202KGTS	C1608X7R202KGT	1V, 1kHz	2.0	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R222□GTS	C1608X7R222□GT	1V, 1kHz	2.2	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R272□GTS	C1608X7R272□GT	1V, 1kHz	2.7	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R332□GTS	C1608X7R332□GT	1V, 1kHz	3.3	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R392□GTS	C1608X7R392□GT	1V, 1kHz	3.9	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R472□GTS	C1608X7R472□GT	1V, 1kHz	4.7	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R562□GTS	C1608X7R562□GT	1V, 1kHz	5.6	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R682□GTS	C1608X7R682□GT	1V, 1kHz	6.8	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R822□GTS	C1608X7R822□GT	1V, 1kHz	8.2	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R103□GTS	C1608X7R103□GT	1V, 1kHz	10	nF	±10%, ±5%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R123□GTS	C1608X7R123□GT	1V, 1kHz	12	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R153□GTS	C1608X7R153□GT	1V, 1kHz	15	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R183□GTS	C1608X7R183□GT	1V, 1kHz	18	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
	C1608X7R223□GTS	C1608X7R223□GT	1V, 1kHz	22	nF	±10%	0.80	±0.10	±0.10	2.5%		(I)
C1608X7R273□GTS	C1608X7R273□GT	1V, 1kHz	27	nF	±10%	0.80	±0.10	±0.10	2.5%	(I)		
C1608X7R333□GTS	C1608X7R333□GT	1V, 1kHz	33	nF	±10%	0.80	±0.15	±0.15	2.5%	(I)		
C1608X7R393□GTS	C1608X7R393□GT	1V, 1kHz	39	nF	±10%	0.80	±0.15	±0.15	2.5%	(I)		
C1608X7R473□GTS	C1608X7R473□GT	1V, 1kHz	47	nF	±10%	0.80	±0.15	±0.15	3.0%	(I)		
C1608X7R563□GTS	C1608X7R563□GT	1V, 1kHz	56	nF	±10%	0.80	±0.15	±0.15	3.0%	(I)		
C1608X7R683□GTS	C1608X7R683□GT	1V, 1kHz	68	nF	±10%	0.80	±0.15	±0.15	3.0%	(I)		
C1608X7R823□GTS	C1608X7R823□GT	1V, 1kHz	82	nF	±10%	0.80	±0.15	±0.15	3.0%	(I)		
C1608X7R104KGTS	C1608X7R104KGT	1V, 1kHz	100	nF	±10%	0.80	±0.15	±0.15	3.5%	(II)		
C1608X7R474KGTS	C1608X7R474KGT	1V, 1kHz	470	nF	±10%	0.80	±0.15	±0.15	10.0%	(II)		
C1608X7R105□GTS	C1608X7R105□GT	1V, 1kHz	1.0	uF	±10%	0.80	±0.20	±0.20	10.0%	(II)		
35V	C1608X7R474KNTS	C1608X7R474KNT	1V, 1kHz	470	nF	±10%	0.80	±0.15	±0.15	10.0%	Paper, 4kpcs	(II)
25V	C1608X7R101□FTS	C1608X7R101□FT	1V, 1kHz	100	pF	±10%	0.80	±0.10	±0.10	3.5%	Paper, 4kpcs	(I)
	C1608X7R121□FTS	C1608X7R121□FT	1V, 1kHz	120	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R151□FTS	C1608X7R151□FT	1V, 1kHz	150	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R181□FTS	C1608X7R181□FT	1V, 1kHz	180	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R221□FTS	C1608X7R221□FT	1V, 1kHz	220	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R271□FTS	C1608X7R271□FT	1V, 1kHz	270	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R331□FTS	C1608X7R331□FT	1V, 1kHz	330	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R391□FTS	C1608X7R391□FT	1V, 1kHz	390	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R471□FTS	C1608X7R471□FT	1V, 1kHz	470	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R561□FTS	C1608X7R561□FT	1V, 1kHz	560	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R681□FTS	C1608X7R681□FT	1V, 1kHz	680	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R821□FTS	C1608X7R821□FT	1V, 1kHz	820	pF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R102□FTS	C1608X7R102□FT	1V, 1kHz	1.0	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R122□FTS	C1608X7R122□FT	1V, 1kHz	1.2	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R152□FTS	C1608X7R152□FT	1V, 1kHz	1.5	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R182□FTS	C1608X7R182□FT	1V, 1kHz	1.8	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R222□FTS	C1608X7R222□FT	1V, 1kHz	2.2	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R272□FTS	C1608X7R272□FT	1V, 1kHz	2.7	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R332□FTS	C1608X7R332□FT	1V, 1kHz	3.3	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R392□FTS	C1608X7R392□FT	1V, 1kHz	3.9	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R472□FTS	C1608X7R472□FT	1V, 1kHz	4.7	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R562□FTS	C1608X7R562□FT	1V, 1kHz	5.6	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R682□FTS	C1608X7R682□FT	1V, 1kHz	6.8	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R822□FTS	C1608X7R822□FT	1V, 1kHz	8.2	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R103□FTS	C1608X7R103□FT	1V, 1kHz	10	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance (mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
25V	C1608X7R123□ FTS	C1608X7R123□ FT	1V, 1kHz	12	nF	±10%	0.80	±0.10	±0.10	3.5%	Paper, 4kpcs	(I)
	C1608X7R153□ FTS	C1608X7R153□ FT	1V, 1kHz	15	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R183□ FTS	C1608X7R183□ FT	1V, 1kHz	18	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R223□ FTS	C1608X7R223□ FT	1V, 1kHz	22	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R273□ FTS	C1608X7R273□ FT	1V, 1kHz	27	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R333□ FTS	C1608X7R333□ FT	1V, 1kHz	33	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R393□ FTS	C1608X7R393□ FT	1V, 1kHz	39	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R473□ FTS	C1608X7R473□ FT	1V, 1kHz	47	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R563□ FTS	C1608X7R563□ FT	1V, 1kHz	56	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R683□ FTS	C1608X7R683□ FT	1V, 1kHz	68	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R823□ FTS	C1608X7R823□ FT	1V, 1kHz	82	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R104□ FTS	C1608X7R104□ FT	1V, 1kHz	100	nF	±10%	0.80	±0.10	±0.10	3.5%		(I)
	C1608X7R154□ FTS	C1608X7R154□ FT	1V, 1kHz	150	nF	±10%	0.80	±0.15	±0.15	10.0%		(I)
	C1608X7R224□ FTS	C1608X7R224□ FT	1V, 1kHz	220	nF	±10%	0.80	±0.15	±0.15	3.5%		(I)
	C1608X7R334□ FTS	C1608X7R334□ FT	1V, 1kHz	330	nF	±10%	0.80	±0.15	±0.15	7.0%		(I)
	C1608X7R474□ FTS	C1608X7R474□ FT	1V, 1kHz	470	nF	±10%	0.80	±0.15	±0.15	10.0%		(I)
	C1608X7R105□ FTS	C1608X7R105□ FT	1V, 1kHz	1.0	uF	±10%	0.80	±0.15	±0.15	10.0%		(II)
	16V	C1608X7R101□ ETS	C1608X7R101□ ET	1V, 1kHz	100	pF	±10%	0.80	±0.10	±0.10		5.0%
C1608X7R121□ ETS		C1608X7R121□ ET	1V, 1kHz	120	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R151□ ETS		C1608X7R151□ ET	1V, 1kHz	150	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R181□ ETS		C1608X7R181□ ET	1V, 1kHz	180	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R221□ ETS		C1608X7R221□ ET	1V, 1kHz	220	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R271□ ETS		C1608X7R271□ ET	1V, 1kHz	270	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R331□ ETS		C1608X7R331□ ET	1V, 1kHz	330	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R391□ ETS		C1608X7R391□ ET	1V, 1kHz	390	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R471□ ETS		C1608X7R471□ ET	1V, 1kHz	470	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R561□ ETS		C1608X7R561□ ET	1V, 1kHz	560	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R681□ ETS		C1608X7R681□ ET	1V, 1kHz	680	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R821□ ETS		C1608X7R821□ ET	1V, 1kHz	820	pF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R102□ ETS		C1608X7R102□ ET	1V, 1kHz	1.0	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R122□ ETS		C1608X7R122□ ET	1V, 1kHz	1.2	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R152□ ETS		C1608X7R152□ ET	1V, 1kHz	1.5	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R182□ ETS		C1608X7R182□ ET	1V, 1kHz	1.8	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R222□ ETS		C1608X7R222□ ET	1V, 1kHz	2.2	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R272□ ETS		C1608X7R272□ ET	1V, 1kHz	2.7	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R332□ ETS		C1608X7R332□ ET	1V, 1kHz	3.3	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R392□ ETS		C1608X7R392□ ET	1V, 1kHz	3.9	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R472□ ETS		C1608X7R472□ ET	1V, 1kHz	4.7	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R562□ ETS		C1608X7R562□ ET	1V, 1kHz	5.6	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R682□ ETS		C1608X7R682□ ET	1V, 1kHz	6.8	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R822□ ETS		C1608X7R822□ ET	1V, 1kHz	8.2	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R103□ ETS		C1608X7R103□ ET	1V, 1kHz	10	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R123□ ETS		C1608X7R123□ ET	1V, 1kHz	12	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R153□ ETS		C1608X7R153□ ET	1V, 1kHz	15	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R183□ ETS		C1608X7R183□ ET	1V, 1kHz	18	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R223□ ETS		C1608X7R223□ ET	1V, 1kHz	22	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R273□ ETS		C1608X7R273□ ET	1V, 1kHz	27	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R333□ ETS		C1608X7R333□ ET	1V, 1kHz	33	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R393□ ETS		C1608X7R393□ ET	1V, 1kHz	39	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R473□ ETS		C1608X7R473□ ET	1V, 1kHz	47	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R563□ ETS		C1608X7R563□ ET	1V, 1kHz	56	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R683□ ETS		C1608X7R683□ ET	1V, 1kHz	68	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R823□ ETS		C1608X7R823□ ET	1V, 1kHz	82	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)	
C1608X7R104□ ETS	C1608X7R104□ ET	1V, 1kHz	100	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)		
C1608X7R154□ ETS	C1608X7R154□ ET	1V, 1kHz	150	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)		
C1608X7R224□ ETS	C1608X7R224□ ET	1V, 1kHz	220	nF	±10%	0.80	±0.15	±0.15	5.0%	(I)		
C1608X7R334□ ETS	C1608X7R334□ ET	1V, 1kHz	330	nF	±10%	0.80	±0.15	±0.15	5.0%	(I)		
C1608X7R474□ ETS	C1608X7R474□ ET	1V, 1kHz	470	nF	±10%	0.80	±0.15	±0.15	5.0%	(I)		
C1608X7R684□ ETS	C1608X7R684□ ET	1V, 1kHz	680	nF	±10%	0.80	±0.15	±0.15	10.0%	(I)		
C1608X7R105□ ETS	C1608X7R105□ ET	1V, 1kHz	1.0	uF	±10%	0.80	±0.15	±0.15	10.0%	(II)		

□ Tolerance Code: J=±5%, K=±10%, M=±20%; Special tolerance on the request.

(II)* High temperature load life test are applicable in rated voltage *100%

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
10V	C1608X7R101□DTS	C1608X7R101□DT	1V , 1kHz	100	pF	±10%	0.80	±0.10	±0.10	5.0%	Paper, 4 Kpcs	(I)
	C1608X7R121□DTS	C1608X7R121□DT	1V , 1kHz	120	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R151□DTS	C1608X7R151□DT	1V , 1kHz	150	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R181□DTS	C1608X7R181□DT	1V , 1kHz	180	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R221□DTS	C1608X7R221□DT	1V , 1kHz	220	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R271□DTS	C1608X7R271□DT	1V , 1kHz	270	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R331□DTS	C1608X7R331□DT	1V , 1kHz	330	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R391□DTS	C1608X7R391□DT	1V , 1kHz	390	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R471□DTS	C1608X7R471□DT	1V , 1kHz	470	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R561□DTS	C1608X7R561□DT	1V , 1kHz	560	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R681□DTS	C1608X7R681□DT	1V , 1kHz	680	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R821□DTS	C1608X7R821□DT	1V , 1kHz	820	pF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R102□DTS	C1608X7R102□DT	1V , 1kHz	1.0	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R122□DTS	C1608X7R122□DT	1V , 1kHz	1.2	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R152□DTS	C1608X7R152□DT	1V , 1kHz	1.5	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R182□DTS	C1608X7R182□DT	1V , 1kHz	1.8	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R222□DTS	C1608X7R222□DT	1V , 1kHz	2.2	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R272□DTS	C1608X7R272□DT	1V , 1kHz	2.7	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R332□DTS	C1608X7R332□DT	1V , 1kHz	3.3	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R392□DTS	C1608X7R392□DT	1V , 1kHz	3.9	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R472□DTS	C1608X7R472□DT	1V , 1kHz	4.7	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R562□DTS	C1608X7R562□DT	1V , 1kHz	5.6	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R682□DTS	C1608X7R682□DT	1V , 1kHz	6.8	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R822□DTS	C1608X7R822□DT	1V , 1kHz	8.2	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R103□DTS	C1608X7R103□DT	1V , 1kHz	10	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R123□DTS	C1608X7R123□DT	1V , 1kHz	12	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R153□DTS	C1608X7R153□DT	1V , 1kHz	15	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R183□DTS	C1608X7R183□DT	1V , 1kHz	18	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R223□DTS	C1608X7R223□DT	1V , 1kHz	22	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R273□DTS	C1608X7R273□DT	1V , 1kHz	27	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R333□DTS	C1608X7R333□DT	1V , 1kHz	33	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R393□DTS	C1608X7R393□DT	1V , 1kHz	39	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
	C1608X7R473□DTS	C1608X7R473□DT	1V , 1kHz	47	nF	±10%	0.80	±0.10	±0.10	5.0%		(I)
C1608X7R563□DTS	C1608X7R563□DT	1V , 1kHz	56	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)		
C1608X7R683□DTS	C1608X7R683□DT	1V , 1kHz	68	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)		
C1608X7R823□DTS	C1608X7R823□DT	1V , 1kHz	82	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)		
C1608X7R104□DTS	C1608X7R104□DT	1V , 1kHz	100	nF	±10%	0.80	±0.10	±0.10	5.0%	(I)		
C1608X7R224□DTS	C1608X7R224□DT	1V , 1kHz	220	nF	±10%	0.80	±0.15	±0.15	5.0%	(I)		
C1608X7R334□DTS	C1608X7R334□DT	1V , 1kHz	330	nF	±10%	0.80	±0.15	±0.15	10.0%	(I)		
C1608X7R474□DTS	C1608X7R474□DT	1V , 1kHz	470	nF	±10%	0.80	±0.15	±0.15	10.0%	(I)		
C1608X7R684□DTS	C1608X7R684□DT	1V , 1kHz	680	nF	±10%	0.80	±0.15	±0.15	10.0%	(I)		
C1608X7R105□DTS	C1608X7R105□DT	1V , 1kHz	1.0	uF	±10%	0.80	±0.15	±0.15	10.0%	(II)		
C1608X7R225□DTS	C1608X7R225□DT	1V , 1kHz	2.2	uF	±10%	0.80	±0.15	±0.10	10.0%	(II)		
6.3V	C1608X7R225KCTS	C1608X7R225KCT	1V , 1kHz	2.2	uF	±10%	0.80	±0.15	±0.10	10.0%	Paper, 4kpcs	(II)
	C1608X7R475KCTS	C1608X7R475KCT	1V , 1kHz	4.7	uF	±10%	0.80	±0.20	±0.20	10.0%		(II)

□ Tolerance Code: J=±5%, K=±10%, M=±20%; Special tolerance on the request.

(II)* High temperature load life test are applicable in rated voltage *100%

● C2012X7R Series (EIA0805)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C2012X7R151□GTSC		1V, 1kHz	150	pF	±10%	0.60	±0.15	±0.15	2.5%	Paper, 4kpcs	(I)
	C2012X7R151□GTS	C2012X7R151□GT	1V, 1kHz	150	pF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R181□GTSC		1V, 1kHz	180	pF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R181□GTS	C2012X7R181□GT	1V, 1kHz	180	pF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R221□GTSC		1V, 1kHz	220	pF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R221□GTS	C2012X7R221□GT	1V, 1kHz	220	pF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R271□GTSC		1V, 1kHz	270	pF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R271□GTS	C2012X7R271□GT	1V, 1kHz	270	pF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R331□GTSC		1V, 1kHz	330	pF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R331□GTS	C2012X7R331□GT	1V, 1kHz	330	pF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R391□GTSC		1V, 1kHz	390	pF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R391□GTS	C2012X7R391□GT	1V, 1kHz	390	pF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R471□GTSC		1V, 1kHz	470	pF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R471□GTS	C2012X7R471□GT	1V, 1kHz	470	pF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R561□GTSC		1V, 1kHz	560	pF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R561□GTS	C2012X7R561□GT	1V, 1kHz	560	pF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R681□GTSC		1V, 1kHz	680	pF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R681□GTS	C2012X7R681□GT	1V, 1kHz	680	pF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R821□GTSC		1V, 1kHz	820	pF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R821□GTS	C2012X7R821□GT	1V, 1kHz	820	pF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R102□GTSC		1V, 1kHz	1.0	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R102□GTS	C2012X7R102□GT	1V, 1kHz	1.0	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R122□GTSC		1V, 1kHz	1.2	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R122□GTS	C2012X7R122□GT	1V, 1kHz	1.2	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R152□GTSC		1V, 1kHz	1.5	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R152□GTS	C2012X7R152□GT	1V, 1kHz	1.5	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R182□GTSC		1V, 1kHz	1.8	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R182□GTS	C2012X7R182□GT	1V, 1kHz	1.8	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R222□GTSC		1V, 1kHz	2.2	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R222□GTS	C2012X7R222□GT	1V, 1kHz	2.2	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R272□GTSC		1V, 1kHz	2.7	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R272□GTS	C2012X7R272□GT	1V, 1kHz	2.7	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R332□GTSC		1V, 1kHz	3.3	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R332□GTS	C2012X7R332□GT	1V, 1kHz	3.3	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R392□GTSC		1V, 1kHz	3.9	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R392□GTS	C2012X7R392□GT	1V, 1kHz	3.9	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R472□GTSC		1V, 1kHz	4.7	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R472□GTS	C2012X7R472□GT	1V, 1kHz	4.7	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R562□GTSC		1V, 1kHz	5.6	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R562□GTS	C2012X7R562□GT	1V, 1kHz	5.6	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R682□GTSC		1V, 1kHz	6.8	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R682□GTS	C2012X7R682□GT	1V, 1kHz	6.8	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R822□GTSC		1V, 1kHz	8.2	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R822□GTS	C2012X7R822□GT	1V, 1kHz	8.2	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R103□GTSC		1V, 1kHz	10	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R103□GTS	C2012X7R103□GT	1V, 1kHz	10	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R123□GTSC		1V, 1kHz	12	nF	±10%	0.60	±0.15	±0.15	2.5%		(I)
	C2012X7R123□GTS	C2012X7R123□GT	1V, 1kHz	12	nF	±10%	0.85	±0.15	±0.15	2.5%		(I)
	C2012X7R153□GTSC		1V, 1kHz	15	nF	±10%	0.60	±0.15	±0.15	2.5%	(I)	
	C2012X7R153□GTS	C2012X7R153□GT	1V, 1kHz	15	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)	
C2012X7R183□GTSC		1V, 1kHz	18	nF	±10%	0.60	±0.15	±0.15	2.5%	(I)		
C2012X7R183□GTS	C2012X7R183□GT	1V, 1kHz	18	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)		
C2012X7R223□GTSC		1V, 1kHz	22	nF	±10%	0.60	±0.15	±0.15	2.5%	(I)		
C2012X7R223KGTSD	C2012X7R223KGT	1V, 1kHz	22	nF	±10%	0.80	±0.15	±0.15	2.5%	(I)		
C2012X7R273□GTSC		1V, 1kHz	27	nF	±10%	0.60	±0.15	±0.15	2.5%	(I)		
C2012X7R273□GTS	C2012X7R273□GT	1V, 1kHz	27	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)		
C2012X7R333□GTSC		1V, 1kHz	33	nF	±10%	0.60	±0.15	±0.15	2.5%	(I)		
C2012X7R333□GTS	C2012X7R333□GT	1V, 1kHz	33	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)		
C2012X7R393□GTSC		1V, 1kHz	39	nF	±10%	0.60	±0.15	±0.15	2.5%	(I)		
C2012X7R393□GTS	C2012X7R393□GT	1V, 1kHz	39	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)		
C2012X7R473□GTS	C2012X7R473□GT	1V, 1kHz	47	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)		
C2012X7R563□GTS	C2012X7R563□GT	1V, 1kHz	56	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)		
C2012X7R683□GTS	C2012X7R683□GT	1V, 1kHz	68	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)		
C2012X7R823□GTS	C2012X7R823□GT	1V, 1kHz	82	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)		
C2012X7R104KGTSD		1V, 1kHz	100	nF	±10%	0.80	±0.15	±0.10	2.5%	(I)		
C2012X7R124□GTS	C2012X7R124□GT	1V, 1kHz	120	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)		
C2012X7R154□GTS	C2012X7R154□GT	1V, 1kHz	150	nF	±10%	0.85	±0.15	±0.15	2.5%	(I)		
C2012X7R184KGPSG		1V, 1kHz	180	nF	±10%	1.25	±0.15	±0.20	3.0%	Embossed, 3kpcs	(I)	
C2012X7R224□GTS	C2012X7R224□GT	1V, 1kHz	220	nF	±10%	0.85	±0.15	±0.15	3.0%	Paper, 4kpcs	(I)	
C2012X7R224□GPS	C2012X7R224□GP	1V, 1kHz	220	nF	±10%	1.25	±0.15	±0.20	3.0%		(I)	
C2012X7R334□GPS	C2012X7R334□GP	1V, 1kHz	330	nF	±10%	1.25	±0.15	±0.20	3.0%	Embossed, 3kpcs	(I)	
C2012X7R474KGPS	C2012X7R474KGP	1V, 1kHz	470	nF	±10%	1.25	±0.15	±0.20	3.5%		(I)	
C2012X7R105KGPSG	C2012X7R105KGP	1V, 1kHz	1.0	uF	±10%	1.25	±0.10	±0.10	10.0%		(II)	
C2012X7R225KGPSG	C2012X7R225KGP	1V, 1kHz	2.2	uF	±10%	1.25	±0.20	±0.20	10.0%	(II)		

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance (mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
35V	C2012X7R474KNPS	C2012X7R474KNP	1V, 1kHz	470	nF	±10%	1.25	±0.15	±0.20	3.5%	Embossed, 3kpcs	(I)
	C2012X7R102□ FTSC		1V, 1kHz	1.0	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R102□ FTS	C2012X7R102□ FT	1V, 1kHz	1.0	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R122□ FTSC		1V, 1kHz	1.2	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R122□ FTS	C2012X7R122□ FT	1V, 1kHz	1.2	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R152□ FTSC		1V, 1kHz	1.5	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R152□ FTS	C2012X7R152□ FT	1V, 1kHz	1.5	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R182□ FTSC		1V, 1kHz	1.8	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R182□ FTS	C2012X7R182□ FT	1V, 1kHz	1.8	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R222□ FTSC		1V, 1kHz	2.2	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R222□ FTS	C2012X7R222□ FT	1V, 1kHz	2.2	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R272□ FTSC		1V, 1kHz	2.7	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R272□ FTS	C2012X7R272□ FT	1V, 1kHz	2.7	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R332□ FTSC		1V, 1kHz	3.3	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R332□ FTS	C2012X7R332□ FT	1V, 1kHz	3.3	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R392□ FTSC		1V, 1kHz	3.9	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R392□ FTS	C2012X7R392□ FT	1V, 1kHz	3.9	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R472□ FTSC		1V, 1kHz	4.7	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R472□ FTS	C2012X7R472□ FT	1V, 1kHz	4.7	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R562□ FTSC		1V, 1kHz	5.6	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R562□ FTS	C2012X7R562□ FT	1V, 1kHz	5.6	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R682□ FTSC		1V, 1kHz	6.8	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R682□ FTS	C2012X7R682□ FT	1V, 1kHz	6.8	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R822□ FTSC		1V, 1kHz	8.2	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R103□ FTSC		1V, 1kHz	10	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R103□ FTS	C2012X7R103□ FT	1V, 1kHz	10	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R123KF TSC		1V, 1kHz	12	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R123KF TFS	C2012X7R123KF T	1V, 1kHz	12	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R153□ FTSC		1V, 1kHz	15	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R153□ FTS	C2012X7R153□ FT	1V, 1kHz	15	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R183□ FTSC		1V, 1kHz	18	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R183□ FTS	C2012X7R183□ FT	1V, 1kHz	18	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R223□ FTSC		1V, 1kHz	22	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R223□ FTS	C2012X7R223□ FT	1V, 1kHz	22	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R273□ FTSC		1V, 1kHz	27	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R273□ FTS	C2012X7R273□ FT	1V, 1kHz	27	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R333□ FTSC		1V, 1kHz	33	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R333□ FTS	C2012X7R333□ FT	1V, 1kHz	33	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R393□ FTSC		1V, 1kHz	39	nF	±10%	0.60	±0.15	±0.15	3.5%		(I)
	C2012X7R393□ FTS	C2012X7R393□ FT	1V, 1kHz	39	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R473□ FTSC		1V, 1kHz	47	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R473□ FTS	C2012X7R473□ FT	1V, 1kHz	47	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
C2012X7R563□ FTSC		1V, 1kHz	56	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R563□ FTS	C2012X7R563□ FT	1V, 1kHz	56	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R683□ FTSC		1V, 1kHz	68	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R683□ FTS	C2012X7R683□ FT	1V, 1kHz	68	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R823□ FTSC		1V, 1kHz	82	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R823□ FTS	C2012X7R823□ FT	1V, 1kHz	82	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R104□ FTSC		1V, 1kHz	100	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R104□ FTS	C2012X7R104□ FT	1V, 1kHz	100	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R124□ FTSC		1V, 1kHz	120	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R124□ FTS	C2012X7R124□ FT	1V, 1kHz	120	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R154□ FTSC		1V, 1kHz	150	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R154□ FTS	C2012X7R154□ FT	1V, 1kHz	150	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R184□ FTSC		1V, 1kHz	180	nF	±10%	0.85	±0.15	±0.20	3.5%	(I)		
C2012X7R184□ FTS	C2012X7R184□ FT	1V, 1kHz	180	nF	±10%	0.85	±0.15	±0.20	3.5%	(I)		
C2012X7R224□ FTSC		1V, 1kHz	220	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R224□ FTS	C2012X7R224□ FT	1V, 1kHz	220	nF	±10%	0.85	±0.15	±0.15	3.5%	(I)		
C2012X7R334□ FTSC		1V, 1kHz	330	nF	±10%	1.25	±0.15	±0.20	5.0%	(I)		
C2012X7R334□ FTS	C2012X7R334□ FT	1V, 1kHz	330	nF	±10%	1.25	±0.15	±0.20	5.0%	(I)		
C2012X7R474□ FTSC		1V, 1kHz	470	nF	±10%	1.25	±0.15	±0.20	5.0%	(I)		
C2012X7R474□ FTS	C2012X7R474□ FT	1V, 1kHz	470	nF	±10%	1.25	±0.15	±0.20	5.0%	(I)		
C2012X7R105□ FTSC		1V, 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15	±0.15	10.0%	(II)		
C2012X7R105□ FTS	C2012X7R105□ FT	1V, 1kHz	1.0	uF	±10%	1.25	±0.15	±0.20	10.0%	(II)		
C2012X7R225□ FTSC		1V, 1kHz	2.2	uF	±10%	1.25	±0.15	±0.20	10.0%	(II)		
C2012X7R225□ FTS	C2012X7R225□ FT	1V, 1kHz	2.2	uF	±10%	1.25	±0.15	±0.20	10.0%	(II)		
C2012X7R475□ FTSC		1V, 1kHz	4.7	uF	±10%	1.25	±0.15	±0.15	12.5%	(II)*		
C2012X7R475□ FTS	C2012X7R475□ FT	1V, 1kHz	4.7	uF	±10%	1.25	±0.15	±0.15	12.5%	(II)*		
16V	C2012X7R123KETS	C2012X7R123KET	1V, 1kHz	12	nF	±10%	0.85	±0.15	±0.15	3.5%	Paper, 4kpcs	(I)
	C2012X7R224□ ETS	C2012X7R224□ ET	1V, 1kHz	220	nF	±10%	0.85	±0.15	±0.15	3.5%		(I)
	C2012X7R334□ EPS	C2012X7R334□ EP	1V, 1kHz	330	nF	±10%	1.25	±0.15	±0.20	5.0%		(I)
	C2012X7R474□ EPS	C2012X7R474□ EP	1V, 1kHz	470	nF	±10%	1.25	±0.15	±0.20	5.0%		(I)
	C2012X7R684□ EPS	C2012X7R684□ EP	1V, 1kHz	680	nF	±10%	1.25	±0.15	±0.10	5.0%		(I)
	C2012X7R105□ EPS	C2012X7R105□ EP	1V, 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15	±0.20	5.0%		(I)
	C2012X7R225□ EPS	C2012X7R225□ EP	1V, 1kHz	2.2	uF	±10%	1.25	±0.15	±0.20	10.0%		(I)
	C2012X7R475□ EPS	C2012X7R475□ EP	1V, 1kHz	4.7	uF	±10%	1.25	±0.15	±0.20	10.0%		(II)
10V	C2012X7R106□ EPS	C2012X7R106□ EP	0.5V, 1kHz	10	uF	±10%, ±20%	1.25	±0.15	±0.20	10.0%	(II)*	
	C2012X7R105□ DPS	C2012X7R105□ DP	1V, 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15	±0.20	5.0%	(I)	
	C2012X7R225□ DPS	C2012X7R225□ DP	1V, 1kHz	2.2	uF	±10%	1.25	±0.15	±0.20	10.0%	(I)	
	C2012X7R475□ DPS	C2012X7R475□ DP	1V, 1kHz	4.7	uF	±10%	1.25	±0.15	±0.20	10.0%	(I)	
6.3V	C2012X7R106□ CPS	C2012X7R106□ CP	1V, 1kHz	4.7	uF	±10%	1.25	±0.15	±0.20	10.0%	Embossed, 3kpcs	(II)
	C2012X7R106□ CPS	C2012X7R106□ CP	0.5V, 1kHz	10	uF	±10%, ±20%	1.25	±0.15	±0.20	15.0%		(II)

MLCC
General Purpose

● C3216X7R Series (EIA1206)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.	
				Value	Unit			L/W	Thick.				
50V	C3216X7R562□GTS	C3216X7R562□GT	1V, 1kHz	5.6	nF	±5%, ±10%	0.85	±0.15	±0.10	3.5%	Paper, 4kpcs	(I)	
	C3216X7R103□GTS	C3216X7R103□GT	1V, 1kHz	10	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R123□GTS	C3216X7R123□GT	1V, 1kHz	12	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R153□GTS	C3216X7R153□GT	1V, 1kHz	15	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R183□GTS	C3216X7R183□GT	1V, 1kHz	18	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R223□GTS	C3216X7R223□GT	1V, 1kHz	22	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R273□GTS	C3216X7R273□GT	1V, 1kHz	27	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R333□GTS	C3216X7R333□GT	1V, 1kHz	33	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R393□GTS	C3216X7R393□GT	1V, 1kHz	39	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R473□GTS	C3216X7R473□GT	1V, 1kHz	47	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R563□GTS	C3216X7R563□GT	1V, 1kHz	56	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R683□GTS	C3216X7R683□GT	1V, 1kHz	68	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R823□GTS	C3216X7R823□GT	1V, 1kHz	82	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R104□GTS	C3216X7R104□GT	1V, 1kHz	100	nF	±10%	0.85	±0.15	±0.10	3.5%		(I)	
	C3216X7R224□GPS	C3216X7R224□GP	1V, 1kHz	220	nF	±10%	0.95	±0.15	±0.10	3.5%		Embossed, 3kpcs	(I)
	C3216X7R334□GPS	C3216X7R334□GP	1V, 1kHz	330	nF	±10%	1.25	±0.15	±0.15	3.5%			(I)
	C3216X7R474□GPSG	C3216X7R474□GP	1V, 1kHz	470	nF	±10%	1.25	±0.15	±0.15	3.5%		Embossed, 2kpcs	(I)
	C3216X7R684KGPS	C3216X7R684KGP	1V, 1kHz	680	nF	±10%	1.60	+0.3/-0.1	+0.3/-0.1	3.5%			(I)
	C3216X7R105□GPSG		1V, 1kHz	1.0	uF	±10%	1.25	±0.15	±0.15	3.5%		Embossed, 3kpcs	(I)
	C3216X7R105□GPS	C3216X7R105□GP	1V, 1kHz	1.0	uF	±10%	1.60	±0.30	±0.30	3.5%			(I)
C3216X7R225KGPSL	C3216X7R225KGP	1V, 1kHz	2.2	uF	±10%	1.60	±0.20	±0.20	10.0%	Embossed, 2kpcs	(II)		
C3216X7R475□GPS	C3216X7R475□GP	1V, 1kHz	4.7	uF	±10%	1.60	±0.30	±0.30	10.0%		(II)		
25V	C3216X7R224□FPS	C3216X7R224□FP	1V, 1kHz	220	nF	±10%	0.95	±0.15	±0.10	3.5%	Embossed, 3kpcs	(I)	
	C3216X7R334□FPS	C3216X7R334□FP	1V, 1kHz	330	nF	±10%	0.95	±0.15	±0.10	3.5%		(I)	
	C3216X7R474□FPS	C3216X7R474□FP	1V, 1kHz	470	nF	±10%	1.25	±0.15	±0.20	3.5%		(I)	
	C3216X7R105□FPS	C3216X7R105□FP	1V, 1kHz	1.0	uF	±10%, ±20%	1.25	±0.15	±0.20	3.5%		(I)	
	C3216X7R225□FPS	C3216X7R225□FP	1V, 1kHz	2.2	uF	±10%	1.60	±0.30	±0.30	5.0%		Embossed, 2kpcs	(I)
	C3216X7R475□FPS	C3216X7R475□FP	1V, 1kHz	4.7	uF	±10%	1.60	±0.30	±0.30	10.0%			(I)
16V	C3216X7R106□FPS	C3216X7R106□FP	1V, 1kHz	10	uF	±10%	1.60	±0.30	±0.30	10.0%	Embossed, 3kpcs	(II)	
	C3216X7R474□EPS	C3216X7R474□EP	1V, 1kHz	470	nF	±10%	1.25	±0.15	±0.20	5.0%		(I)	
	C3216X7R105□EPS	C3216X7R105□EP	1V, 1kHz	1.0	uF	±10%	1.25	±0.15	±0.20	5.0%		(I)	
	C3216X7R225□EPS	C3216X7R225□EP	1V, 1kHz	2.2	uF	±10%	1.60	±0.30	±0.30	10.0%		(I)	
	C3216X7R475□EPS	C3216X7R475□EP	1V, 1kHz	4.7	uF	±10%	1.60	±0.30	±0.30	10.0%		(I)	
10V	C3216X7R106□EPS	C3216X7R106□EP	1V, 1kHz	10	uF	±10%, ±20%	1.60	±0.30	±0.30	10.0%	Embossed, 2kpcs	(II)*	
	C3216X7R225□DPS	C3216X7R225□DP	1V, 1kHz	2.2	uF	±10%	1.60	±0.30	±0.30	10.0%		(I)	
	C3216X7R106□DPS	C3216X7R106□DP	1V, 1kHz	10	uF	±10%, ±20%	1.60	±0.30	±0.30	10.0%		(II)	
	C3216X7R226□DPS	C3216X7R226□DP	0.5V, 120Hz	22	uF	±10%, ±20%	1.60	±0.30	±0.30	10.0%		(II)	
6.3V	C3216X7R226□CPS	C3216X7R226□CP	0.5V, 120Hz	22	uF	±10%	1.60	±0.30	±0.30	10.0%		(II)	

● C3225X7R Series (EIA1210)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C3225X7R475KGPS	C3225X7R475KGP	1V, 1kHz	4.7	uF	±10%	2.50	±0.3/±0.2	±0.20	10.0%	Embossed, 1kpcs	(II)
	C3225X7R106MGPS	C3225X7R106MGP	1V, 1kHz	10	uF	±20%	2.50	±0.30	±0.30	10.0%		(II)
25V	C3225X7R475KFPS	C3225X7R475KFP	1V, 1kHz	4.7	uF	±10%	2.00	±0.3/±0.2	±0.20	10.0%	Embossed, 2kpcs	(I)
	C3225X7R106KFPS	C3225X7R106KFP	1V, 1kHz	10	uF	±10%	2.00	±0.3/±0.2	±0.30	10.0%		(II)
	C3225X7R226KFPS	C3225X7R226KFP	0.5V, 120Hz	22	uF	±10%	2.50	±0.3/±0.2	±0.20	10.0%		Embossed, 1kpcs
16V	C3225X7R106KEPS	C3225X7R106KEP	1V, 1kHz	10	uF	±10%	2.00	±0.3/±0.2	±0.20	10.0%	Embossed, 2kpcs	(I)
	C3225X7R226KEPS	C3225X7R226KEP	0.5V, 120Hz	22	uF	±10%	2.50	±0.3/±0.2	±0.30	10.0%		Embossed, 1kpcs
10V	C3225X7R226KDPS	C3225X7R226KDP	0.5V, 120Hz	22	uF	±10%	2.50	±0.3/±0.2	±0.20	10.0%	Embossed, 1kpcs	(II)
	C3225X7R476KDPS	C3225X7R476KDP	0.5V, 120Hz	47	uF	±10%	2.50	±0.3/±0.2	±0.20	10.0%		(II)

□ Tolerance Code: J=±5%, K=±10%, M=±20%; Special tolerance on the request.

(II)* High temperature load life test are applicable in rated voltage *100%

■ X7S Series

● C1005X7S Series (EIA0402)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
10V	C1005X7S105KDTS	C1005X7S105KDT	1V , 1kHz	1.0	uF	±10%	0.50	±0.10	±0.10	10.0%	Paper, 10kpcs	(II)

● C1608X7S Series (EIA0603)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
16V	C1608X7S225KETS	C1608X7S225KET	1V , 1kHz	2.2	uF	±10%	0.80	±0.20	±0.20	10.0%	Paper, 4kpcs	(II)
10V	C1608X7S475KDTS	C1608X7S475KDT	1V , 1kHz	4.7	uF	±10%	0.80	±0.15	±0.15	10.0%		(II)

■ Y5V Series

● C1005Y5V Series (EIA0402)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C1005Y5V103ZGTS	C1005Y5V103ZGT	1V, 1kHz	10	nF	+80%/-20%	0.50	±0.05	±0.05	7.0%	Paper, 10Kpcs	(I)
	C1005Y5V223ZGTS	C1005Y5V223ZGT	1V, 1kHz	22	nF	+80%/-20%	0.50	±0.05	±0.05	9.0%		(I)
25V	C1005Y5V103ZFTS	C1005Y5V103ZFT	1V, 1kHz	10	nF	+80%/-20%	0.50	±0.05	±0.05	9.0%		(I)
	C1005Y5V223ZFTS	C1005Y5V223ZFT	1V, 1kHz	22	nF	+80%/-20%	0.50	±0.05	±0.05	9.0%		(I)
	C1005Y5V473ZFTS	C1005Y5V473ZFT	1V, 1kHz	47	nF	+80%/-20%	0.50	±0.05	±0.05	9.0%		(I)
	C1005Y5V104ZFTS	C1005Y5V104ZFT	1V, 1kHz	100	nF	+80%/-20%	0.50	±0.05	±0.05	9.0%		(I)
16V	C1005Y5V224ZETS	C1005Y5V224ZET	1V, 1kHz	220	nF	+80%/-20%	0.50	±0.05	±0.05	9.0%		(II)
	C1005Y5V474ZETS	C1005Y5V474ZET	1V, 1kHz	470	nF	+80%/-20%	0.50	±0.05	±0.05	12.5%		(II)
10V	C1005Y5V224ZDTS	C1005Y5V224ZDT	1V, 1kHz	220	nF	+80%/-20%	0.50	±0.05	±0.05	12.5%		(I)
	C1005Y5V334ZDTS	C1005Y5V334ZDT	1V, 1kHz	330	nF	+80%/-20%	0.50	±0.05	±0.05	16.0%		(I)
	C1005Y5V474ZDTS	C1005Y5V474ZDT	1V, 1kHz	470	nF	+80%/-20%	0.50	±0.05	±0.05	16.0%		(I)
	C1005Y5V105ZDTS	C1005Y5V105ZDT	1V, 1kHz	1.0	uF	+80%/-20%	0.50	±0.05	±0.05	16.0%		(II)
6.3V	C1005Y5V224ZCTS	C1005Y5V224ZCT	1V, 1kHz	220	nF	+80%/-20%	0.50	±0.05	±0.05	12.5%		(I)
	C1005Y5V334ZCTS	C1005Y5V334ZCT	1V, 1kHz	330	nF	+80%/-20%	0.50	±0.05	±0.05	16.0%		(I)
	C1005Y5V474ZCTS	C1005Y5V474ZCT	1V, 1kHz	470	nF	+80%/-20%	0.50	±0.05	±0.05	16.0%		(I)
	C1005Y5V105ZCTS	C1005Y5V105ZCT	1V, 1kHz	1.0	uF	+80%/-20%	0.50	±0.05	±0.05	16.0%		(I)

● C1608Y5V Series (EIA0603)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C1608Y5V103ZGTS	C1608Y5V103ZGT	1V, 1kHz	10	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	Paper, 4kpcs	(I)
	C1608Y5V123ZGTS	C1608Y5V123ZGT	1V, 1kHz	12	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V153ZGTS	C1608Y5V153ZGT	1V, 1kHz	15	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V183ZGTS	C1608Y5V183ZGT	1V, 1kHz	18	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V223ZGTS	C1608Y5V223ZGT	1V, 1kHz	22	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V273ZGTS	C1608Y5V273ZGT	1V, 1kHz	27	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V333ZGTS	C1608Y5V333ZGT	1V, 1kHz	33	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V393ZGTS	C1608Y5V393ZGT	1V, 1kHz	39	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V473ZGTS	C1608Y5V473ZGT	1V, 1kHz	47	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V563ZGTS	C1608Y5V563ZGT	1V, 1kHz	56	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V683ZGTS	C1608Y5V683ZGT	1V, 1kHz	68	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V823ZGTS	C1608Y5V823ZGT	1V, 1kHz	82	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%		(I)
	C1608Y5V104ZGTS	C1608Y5V104ZGT	1V, 1kHz	100	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V224ZGTS	C1608Y5V224ZGT	1V, 1kHz	220	nF	+80%/-20%	0.80	±0.10	±0.10	9.0%		(I)
	C1608Y5V474ZGTS	C1608Y5V474ZGT	1V, 1kHz	470	nF	+80%/-20%	0.80	±0.15	±0.15	9.0%		(I)
	25V	C1608Y5V103ZFTS	C1608Y5V103ZFT	1V, 1kHz	10	nF	+80%/-20%	0.80	±0.10	±0.10		5.0%
C1608Y5V123ZFTS		C1608Y5V123ZFT	1V, 1kHz	12	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V153ZFTS		C1608Y5V153ZFT	1V, 1kHz	15	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V183ZFTS		C1608Y5V183ZFT	1V, 1kHz	18	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V223ZFTS		C1608Y5V223ZFT	1V, 1kHz	22	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V273ZFTS		C1608Y5V273ZFT	1V, 1kHz	27	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V333ZFTS		C1608Y5V333ZFT	1V, 1kHz	33	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V393ZFTS		C1608Y5V393ZFT	1V, 1kHz	39	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V473ZFTS		C1608Y5V473ZFT	1V, 1kHz	47	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V563ZFTS		C1608Y5V563ZFT	1V, 1kHz	56	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V683ZFTS		C1608Y5V683ZFT	1V, 1kHz	68	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V823ZFTS		C1608Y5V823ZFT	1V, 1kHz	82	nF	+80%/-20%	0.80	±0.10	±0.10	5.0%	(I)	
C1608Y5V104ZFTS		C1608Y5V104ZFT	1V, 1kHz	100	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%	(I)	
C1608Y5V224ZFTS		C1608Y5V224ZFT	1V, 1kHz	220	nF	+80%/-20%	0.80	±0.10	±0.10	9.0%	(I)	
C1608Y5V334ZFTS		C1608Y5V334ZFT	1V, 1kHz	330	nF	+80%/-20%	0.80	±0.10	±0.10	9.0%	(I)	
C1608Y5V684ZFTS		C1608Y5V684ZFT	1V, 1kHz	680	nF	+80%/-20%	0.80	±0.15	±0.15	9.0%	(I)	
C1608Y5V105ZFTS	C1608Y5V105ZFT	1V, 1kHz	1.0	uF	+80%/-20%	0.80	±0.15	±0.15	10.0%	(II)		
16V	C1608Y5V103ZETS	C1608Y5V103ZET	1V, 1kHz	10	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%	Paper, 4kpcs	(I)
	C1608Y5V123ZETS	C1608Y5V123ZET	1V, 1kHz	12	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V153ZETS	C1608Y5V153ZET	1V, 1kHz	15	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V183ZETS	C1608Y5V183ZET	1V, 1kHz	18	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V223ZETS	C1608Y5V223ZET	1V, 1kHz	22	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V273ZETS	C1608Y5V273ZET	1V, 1kHz	27	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V333ZETS	C1608Y5V333ZET	1V, 1kHz	33	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V393ZETS	C1608Y5V393ZET	1V, 1kHz	39	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V473ZETS	C1608Y5V473ZET	1V, 1kHz	47	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V563ZETS	C1608Y5V563ZET	1V, 1kHz	56	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V683ZETS	C1608Y5V683ZET	1V, 1kHz	68	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V823ZETS	C1608Y5V823ZET	1V, 1kHz	82	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V104ZETS	C1608Y5V104ZET	1V, 1kHz	100	nF	+80%/-20%	0.80	±0.10	±0.10	7.0%		(I)
	C1608Y5V224ZETS	C1608Y5V224ZET	1V, 1kHz	220	nF	+80%/-20%	0.80	±0.10	±0.10	9.0%		(I)
	C1608Y5V334ZETS	C1608Y5V334ZET	1V, 1kHz	330	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%		(I)
	C1608Y5V474ZETS	C1608Y5V474ZET	1V, 1kHz	470	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%		(I)
C1608Y5V684ZETS	C1608Y5V684ZET	1V, 1kHz	680	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%	(I)		
C1608Y5V824ZETS	C1608Y5V824ZET	1V, 1kHz	820	nF	+80%/-20%	0.80	+0.15/-0.10	+0.15/-0.10	12.5%	(I)		
C1608Y5V105ZETS	C1608Y5V105ZET	1V, 1kHz	1.0	uF	+80%/-20%	0.80	+0.15/-0.10	+0.15/-0.10	12.5%	(I)		
C1608Y5V225ZETS	C1608Y5V225ZET	1V, 1kHz	2.2	uF	+80%/-20%	0.80	+0.15/-0.10	+0.15/-0.10	12.5%	(II)		

□ Tolerance Code: J=±5%, K=±10%, M=±20%; Special tolerance on the request.

(II)* High temperature load life test are applicable in rated voltage *100%

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
10V	C1608Y5V104ZDTS	C1608Y5V104ZDT	1V, 1kHz	100	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%	Paper, 4kpcs	(I)
	C1608Y5V224ZDTS	C1608Y5V224ZDT	1V, 1kHz	220	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%		(II)
	C1608Y5V334ZDTS	C1608Y5V334ZDT	1V, 1kHz	330	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%		(III)
	C1608Y5V474ZDTS	C1608Y5V474ZDT	1V, 1kHz	470	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%		(II)
	C1608Y5V105ZDTS	C1608Y5V105ZDT	1V, 1kHz	1.0	uF	+80%/-20%	0.80	+0.15/-0.10	+0.15/-0.10	12.5%		(II)
6.3V	C1608Y5V225ZDTS	C1608Y5V225ZDT	1V, 1kHz	2.2	uF	+80%/-20%	0.80	+0.15/-0.10	+0.15/-0.10	12.5%	Paper, 4kpcs	(II)
	C1608Y5V104ZCTS	C1608Y5V104ZCT	1V, 1kHz	100	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%		(I)
	C1608Y5V224ZCTS	C1608Y5V224ZCT	1V, 1kHz	220	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%		(I)
	C1608Y5V334ZCTS	C1608Y5V334ZCT	1V, 1kHz	330	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%		(I)
	C1608Y5V474ZCTS	C1608Y5V474ZCT	1V, 1kHz	470	nF	+80%/-20%	0.80	±0.10	±0.10	12.5%		(I)
	C1608Y5V105ZCTS	C1608Y5V105ZCT	1V, 1kHz	1.0	uF	+80%/-20%	0.80	+0.15/-0.10	+0.15/-0.10	12.5%		(I)
	C1608Y5V225ZCTS	C1608Y5V225ZCT	1V, 1kHz	2.2	uF	+80%/-20%	0.80	+0.15/-0.10	+0.15/-0.10	12.5%		(I)
	C1608Y5V475ZCTS	C1608Y5V475ZCT	1V, 1kHz	4.7	uF	+80%/-20%	0.80	+0.15/-0.10	+0.15/-0.10	12.5%	(II)	

● C2012Y5V Series (EIA0805)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.	
				Value	Unit			L/W	Thick.				
50V	C2012Y5V104ZGTS	C2012Y5V104ZGT	1V, 1kHz	100	nF	+80%/-20%	0.60	±0.15/±0.10	±0.10	5.0%	Paper, 4kpcs	(I)	
	C2012Y5V224ZGTS	C2012Y5V224ZGT	1V, 1kHz	220	nF	+80%/-20%	0.60	±0.15/±0.10	±0.10	5.0%		(I)	
	C2012Y5V334ZGTS	C2012Y5V334ZGT	1V, 1kHz	330	nF	+80%/-20%	0.80	±0.15/±0.10	±0.10	5.0%		(I)	
	C2012Y5V474ZGTS	C2012Y5V474ZGT	1V, 1kHz	470	nF	+80%/-20%	0.80	±0.15/±0.10	±0.10	7.0%		(I)	
	C2012Y5V105ZGTS	C2012Y5V105ZGP	1V, 1kHz	1.0	uF	+80%/-20%	1.25	±0.20	±0.20	9.0%		Embossed, 3kpcs	(I)
25V	C2012Y5V104ZFTS	C2012Y5V104ZFT	1V, 1kHz	100	nF	+80%/-20%	0.60	±0.15/±0.10	±0.10	5.0%	Paper, 4kpcs	(I)	
	C2012Y5V224ZFTS	C2012Y5V224ZFT	1V, 1kHz	220	nF	+80%/-20%	0.60	±0.15/±0.10	±0.10	5.0%		(I)	
	C2012Y5V474ZFTS	C2012Y5V474ZFT	1V, 1kHz	470	nF	+80%/-20%	0.80	±0.15/±0.10	±0.10	7.0%		(I)	
	C2012Y5V105ZFTS	C2012Y5V105ZFT	1V, 1kHz	1.0	uF	+80%/-20%	0.85	±0.20	±0.10	9.0%		(II)	
	C2012Y5V105ZFFS	C2012Y5V105ZFF	1V, 1kHz	1.0	uF	+80%/-20%	1.25	±0.15/±0.10	±0.20	7.0%		Embossed, 3kpcs	(I)
	C2012Y5V225ZFFS	C2012Y5V225ZFF	1V, 1kHz	2.2	uF	+80%/-20%	1.25	±0.20	±0.20	10.0%			(I)
16V	C2012Y5V104ZETS	C2012Y5V104ZET	1V, 1kHz	100	nF	+80%/-20%	0.60	±0.15/±0.10	±0.10	5.0%	Paper, 4kpcs	(I)	
	C2012Y5V224ZETS	C2012Y5V224ZET	1V, 1kHz	220	nF	+80%/-20%	0.60	±0.15/±0.10	±0.10	5.0%		(I)	
	C2012Y5V474ZETS	C2012Y5V474ZET	1V, 1kHz	470	nF	+80%/-20%	0.80	±0.15/±0.10	±0.10	7.0%		(I)	
	C2012Y5V105ZETS	C2012Y5V105ZET	1V, 1kHz	1.0	uF	+80%/-20%	0.85	±0.20	±0.10	9.0%		(I)	
	C2012Y5V225ZETS	C2012Y5V225ZET	1V, 1kHz	2.2	uF	+80%/-20%	0.85	±0.20	±0.10	9.0%		(I)	
	C2012Y5V475ZETS	C2012Y5V475ZEP	1V, 1kHz	4.7	uF	+80%/-20%	1.25	±0.15/±0.10	±0.10	12.5%		Embossed, 3kpcs	(II)
10V	C2012Y5V106ZETS	C2012Y5V106ZEP	1V, 1kHz	10.0	uF	+80%/-20%	1.25	±0.20	±0.20	12.5%	Embossed, 3kpcs	(II)*	
	C2012Y5V475ZDPS	C2012Y5V475ZDP	1V, 1kHz	4.7	uF	+80%/-20%	1.25	±0.15/±0.10	±0.10	12.5%	Embossed, 3kpcs	(II)*	
	C2012Y5V106ZDPS	C2012Y5V106ZDP	1V, 1kHz	10	uF	+80%/-20%	1.25	±0.20	±0.20	12.5%	Embossed, 3kpcs	(II)*	

● C3216Y5V Series (EIA1206)

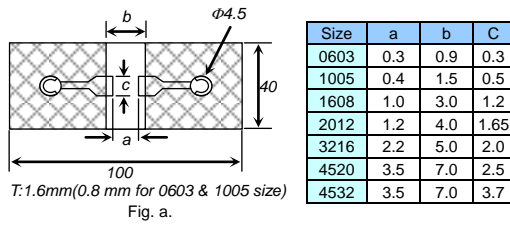
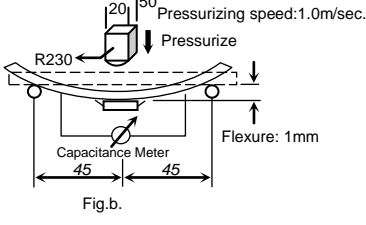
RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
50V	C3216Y5V105ZGFS	C3216Y5V105ZGF	1V, 1kHz	1.0	uF	+80%/-20%	0.95	±0.15/±0.20	±0.15	7.0%	Embossed, 3kpcs	(I)
	C3216Y5V475ZGFS	C3216Y5V475ZGF	1V, 1kHz	4.7	uF	+80%/-20%	1.60	±0.30	±0.30	9.0%		Embossed, 2kpcs
35V	C3216Y5V475ZNFS	C3216Y5V475ZNP	1V, 1kHz	4.7	uF	+80%/-20%	1.15	±0.20	±0.15	12.5%	Embossed, 2kpcs	(II)*
25V	C3216Y5V225ZFFS	C3216Y5V225ZFF	1V, 1kHz	2.2	uF	+80%/-20%	0.95	±0.15/±0.20	±0.15	9.0%	Embossed, 3kpcs	(I)
	C3216Y5V475ZFFS	C3216Y5V475ZFF	1V, 1kHz	4.7	uF	+80%/-20%	1.15	±0.20	±0.15	9.0%		(I)
	C3216Y5V106ZFFS	C3216Y5V106ZFF	1V, 1kHz	10	uF	+80%/-20%	1.60	±0.30	±0.30	12.5%	Embossed, 2kpcs	(II)
	C3216Y5V475ZETS	C3216Y5V475ZET	1V, 1kHz	4.7	uF	+80%/-20%	0.85	±0.30/±0.20	±0.10	12.5%	Paper, 4kpcs	(II)
16V	C3216Y5V475ZEPS	C3216Y5V475ZEP	1V, 1kHz	4.7	uF	+80%/-20%	1.15	±0.20	±0.15	12.5%	Embossed, 3kpcs	(I)
	C3216Y5V106ZEPS	C3216Y5V106ZEP	1V, 1kHz	10	uF	+80%/-20%	1.15	±0.20	±0.20	12.5%		(I)
	C3216Y5V226ZEPS	C3216Y5V226ZEP	0.5V, 120Hz	22	uF	+80%/-20%	1.60	±0.30	±0.30	12.5%		Embossed, 2kpcs
10V	C3216Y5V475ZDPS	C3216Y5V475ZDP	1V, 1kHz	4.7	uF	+80%/-20%	1.15	±0.20	±0.15	12.5%	Embossed, 3kpcs	(I)
	C3216Y5V226ZDPS	C3216Y5V226ZDP	0.5V, 120Hz	22	uF	+80%/-20%	1.60	±0.30	±0.30	20.0%		Embossed, 2kpcs

● C3225Y5V Series (EIA1210)

RV	DARFON P/N	DARFON P/N 2	Measuring Condition	Capacitance		Available Tolerance	Thick. (mm)	Tolerance(mm)		DF (max.)	Standard Packing	Test Spec.
				Value	Unit			L/W	Thick.			
35V	C3225Y5V106ZNPS	C3225Y5V106ZNP	1V, 1kHz	10	uF	+80%/-20%	1.60	±0.20	±0.20	9.0%	Embossed, 2kpcs	(I)
16V	C3225Y5V226ZEPS	C3225Y5V226ZEP	0.5V, 120Hz	22	uF	+80%/-20%	2.00	±0.30/±0.20	±0.30	16.0%		(I)
6.3V	C3225Y5V476ZCWS	C3225Y5V476ZCW	0.5V, 120Hz	47	uF	+80%/-20%	2.00	±0.40/±0.30	±0.20	20.0%		Embossed, 1kpcs

(II)* High temperature load life test are applicable in rated voltage *100%

- Test Spec.
- General Purpose (I)

Item	Specification		Test Method																																
	Temp. compensation type	High dielectric constant type																																	
1	<p>Operation Temperature Range</p> <p>NP0: -55 to 125 °C</p> <p>X7R/X7S: -55 to 125 °C</p> <p>X6S: -55 to 105 °C</p> <p>X5R: -55 to 85 °C</p> <p>Y5V: -30 to 85 °C</p>		---																																
2	<p>Rated Voltage</p> <p>Shown in the table of "Part Number & Characteristic"</p>		The rated voltage is defined as the maximum voltage, which may be applied continuously to the capacitor.																																
3	<p>Appearance</p> <p>No defects or abnormalities.</p>		Visual inspection																																
4	<p>Dimensions</p> <p>Within the specified dimension.</p>		Using calipers																																
5	<p>Dielectric Strength</p> <p>No defects or abnormalities.</p>		No failure shall be observed when 250% of the rated voltage is applied between the terminations for 1 to 5 seconds. The charge and discharge current is less than 50mA.																																
6	<p>Insulation Resistance (I.R.)</p> <p>To apply rated voltage. I.R. $\geq 10G\Omega$ or $R_{CR} \geq 500\Omega \cdot F$ (whichever is smaller)</p>		The insulation resistance shall be measured with a DC voltage not exceeding the rated voltage at 25°C and 75%RH max, and within 1 minute of charging.																																
7	<p>Capacitance</p> <p>Within the specified tolerance * X7R, X6S, X7S, X5R and Y5V at 1000 hours</p>		The capacitance / D.F. shall be measured at 25°C at the frequency and voltage shown in the table of "Part Number & Characteristic".																																
8	<p>Q/Dissipation Factor (D.F.)</p> <p>NP0: If $C \leq 30pF$, $DF \leq 1/(400+20C)$, C in pF If $C > 30pF$, $DF \leq 0.1\%$.</p>		Shown in the table of "Part Number & Characteristic"																																
9	<p>Capacitance Temperature Characteristics</p> <p>Capacitance change NP0 within $0 \pm 30ppm/^\circ C$ under operating temperature range.</p> <p>X7R/X5R within $\pm 15\%$ X6S/X7S within $\pm 22\%$ Y5V: -82 to + 22%</p>		<p>1. Temperature compensation type: The capacitance value at 25°C and 85°C shall be measured and calculated from the formula given below. $T.C. = (C_{85} - C_{25}) / C_{25} \cdot \Delta T \cdot 10^6 (PPM/^\circ C)$</p> <p>2. High dielectric constant type: The ranges of capacitance change compared with the 25°C value over the temperature ranges shall be within the specified ranges.</p>																																
10	<p>Termination Strength</p> <p>No removal of the terminations or marking defect.</p>		Apply a parallel force of 5N to a PCB mounted sample for 10 ± 1 sec. *2N for 0603 (EIA 0201).																																
11	<p>Deflection (Bending Strength)</p> <p>No cracking or marking defects shall occur at 1mm deflection. Capacitance change: NP0: within $\pm 5\%$ or $\pm 0.5pF$. (whichever is larger) X7R, X7S, X6S, X5R: within $\pm 12.5\%$ Y5V: within $\pm 20\%$</p> <p>(Unit in mm)</p>  <p>Fig. a.</p> <table border="1" data-bbox="774 1377 981 1556"> <thead> <tr> <th>Size</th> <th>a</th> <th>b</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>0603</td> <td>0.3</td> <td>0.9</td> <td>0.3</td> </tr> <tr> <td>1005</td> <td>0.4</td> <td>1.5</td> <td>0.5</td> </tr> <tr> <td>1608</td> <td>1.0</td> <td>3.0</td> <td>1.2</td> </tr> <tr> <td>2012</td> <td>1.2</td> <td>4.0</td> <td>1.65</td> </tr> <tr> <td>3216</td> <td>2.2</td> <td>5.0</td> <td>2.0</td> </tr> <tr> <td>4520</td> <td>3.5</td> <td>7.0</td> <td>2.5</td> </tr> <tr> <td>4532</td> <td>3.5</td> <td>7.0</td> <td>3.7</td> </tr> </tbody> </table>		Size	a	b	C	0603	0.3	0.9	0.3	1005	0.4	1.5	0.5	1608	1.0	3.0	1.2	2012	1.2	4.0	1.65	3216	2.2	5.0	2.0	4520	3.5	7.0	2.5	4532	3.5	7.0	3.7	<p>Solder the capacitor to the test jig (glass epoxy boards) shown in Fig.a using a SAC305(Sn96.5Ag3.0Cu0.5) solder (then let sit for 24\pm2 hours for X7R, X7S, X6S, X5R and Y5V).</p> <p>Then apply a force in the direction shown in Fig.b. The soldering shall be done with the reflow method and shall be conducted with care so that the soldering is uniform and free of defects such as heat shock.</p>  <p>Fig. b.</p>
Size	a	b	C																																
0603	0.3	0.9	0.3																																
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4532	3.5	7.0	3.7																																
12	<p>Solderability of Termination</p> <p>90% of the terminations are to be soldered evenly and continuously.</p>		Immerse the test capacitor into a methanol solution containing rosin for 3 to 5 seconds, preheat it 150 to 180°C for 2 to 3 minutes and immerse it into SAC305(Sn96.5Ag3.0Cu0.5) solder of $245 \pm 5^\circ C$ for 3 ± 1 seconds.																																
13	Appearance	No marking defects																																	
	Cap. Change	NP0 within $\pm 2.5\%$ or $0.25pF$ (whichever is larger)	X7R/X7S/X6S/X5R within $\pm 7.5\%$ Y5V within $\pm 20\%$																																
	Q/D.F.	If $C \leq 30pF$, $DF \leq 1/(400+20C)$ If $C > 30pF$, $DF \leq 0.1\%$	To satisfy the specified initial spec.																																
	I.R.	I.R. $\geq 10,000M\Omega$ or $R_{CR} \geq 500\Omega \cdot F$ (whichever is smaller)	I.R. $\geq 10,000M\Omega$ or $R_{CR} \geq 500\Omega \cdot F$ (whichever is smaller)																																

	Item	Specification		Test Method	
		Temp. compensation type	High dielectric constant type		
14	Temperature cycle (Thermal shock)	Appearance	No marking defects		Solder the capacitor to supporting jig (Glass epoxy board) and perform the five cycles according to the four heat treatments listed in the following table. Let sit for 24±2hrs at room temperature, then measure. Step 1: Minimum operating temperature 30±3min Step 2: Room temperature 2~3 min Step 3: Maximum operating temperature 30±3min Step 4: Room temperature 2~3min *High dielectric constant type: Initial measurement: perform a heat treatment at 150±10°C for one hour and then let sit for 24±2 hours at room temp. Perform the initial measurement.
		Cap. Change	NPO within ±2.5% or 0.25pF (whichever is larger)	X7R/X7S/X6S/X5R within ±7.5% Y5V within ±20%	
		Q/D.F.	If C ≤ 30pF, DF ≤ 1/(400+20C) If C > 30pF, DF ≤ 0.1%	To satisfy the specified initial spec.	
		I.R.	I.R. ≥ 10GΩ or R _C R ≥ 500Ω-F. (whichever is smaller)	I.R. ≥ 10GΩ or R _C R ≥ 500Ω-F. (whichever is smaller)	
15	Humidity load	Appearance	No marking defects		Apply the rated voltage at 40±2°C and 90 to 95% humidity for 500±12 hours. The charge / discharge current is less than 50mA. [Temperature compensation type] Remove and let sit for 24±2 hours at room temperature, then measure. [High dielectric constant type] *Initial measurement Perform a heat treatment at 150+0/-10°C for one hour and then let sit for 24±2 hours at room temperature. Perform the initial measurement. *Measurement after test Perform a heat treatment and then let sit for 24±2 hours at room temperature, then measure.
		Cap. Change	NPO within ±7.5% or 0.75pF (whichever is larger)	X7R/X7S/X6S/X5R within ±12.5% Y5V within ±30%	
		Q/D.F.	If C > 30pF, DF ≤ 0.5% If C ≤ 30pF, DF ≤ 1/(100+10xC/3) C in pF	X7R/X7S/X6S/X5R 200% max of initial spec. Y5V 150% max of initial spec.	
		I.R.	I.R. ≥ 500MΩ or R _C R ≥ 25Ω-F. (whichever is smaller)	I.R. ≥ 500MΩ or R _C R ≥ 25Ω-F. (whichever is smaller)	
16	High temperature load life test	Appearance	No marking defects		Apply 200%of the rated voltage for 1000±12 hours at the maximum operating temperature ± 3°C. The charge / discharge current is less than 50mA. [Temperature compensation type] Remove and let sit for 24±2 hours at room temperature, then measure. [High dielectric constant type] *Initial measurement Perform a heat treatment at 150+0/-10°C for one hour and then let sit for 24±2 hours at room temperature. Perform the initial measurement. *Measurement after test Perform a heat treatment and then let sit for 24±2 hours at room temperature, then measure.
		Cap. Change	NPO within ±7.5% or 0.75pF (whichever is larger)	X7R/X7S/X6S/X5R within ±12.5% Y5V within ±30%	
		Q/D.F.	If C > 30pF, DF ≤ 0.3% If 10pF < C ≤ 30pF, DF ≤ 1/(275+5xC/2) If C ≤ 10pF, DF ≤ 1/(200+10C), C in pF	X7R/X7S/X6S/X5R 200% max of initial spec. Y5V 150% max of initial spec.	
		I.R.	More than 1GΩ or R _C R ≥ 50Ω-F (whichever is less.)	More than 1GΩ or R _C R ≥ 50Ω-F (whichever is less.)	

MLCC
General Purpose

● General Purpose (II)

Item	Specification	Test Method																																
1	Operation Temperature Range X7R/X7S: -55 to 125 °C X6S: -55 to 105 °C X5R: -55 to 85 °C Y5V: -30 to 85 °C	---																																
2	Rated Voltage	Shown in the table of "Part Number & Characteristic"																																
3	Appearance	No defects or abnormalities.																																
4	Dimensions	Within the specified dimension.																																
5	Dielectric Strength	No failure shall be observed when 250% of the rated voltage is applied between the terminations for 1 to 5 seconds. The charge and discharge current is less than 50mA.																																
6	Insulation Resistance (I.R.)	$R_{CR} \geq 50\Omega \cdot F$																																
7	Capacitance	Within the specified tolerance * X7R, X7S, X6S, X5R and Y5V at 1000 hours																																
8	Q/Dissipation Factor (D.F.)	Shown in the table of "Part Number & Characteristic"																																
9	Capacitance Temperature Characteristics	Capacitance change X7R/X5R within $\pm 15\%$ X7S/X6S within $\pm 22\%$ Y5V: -82 to + 22%																																
10	Termination Strength	No removal of the terminations or marking defect.																																
11	Deflection (Bending Strength) No cracking or marking defects shall occur at 1mm deflection. Capacitance change: X7R, X7S, X6S, X5R: within $\pm 12.5\%$ Y5V: within $\pm 20\%$ (Unit in mm)	Apply a parallel force of 5N to a PCB mounted sample for 10 ± 1 sec. *2N for 0603 (EIA 0201). Solder the capacitor to the test jig (glass epoxy boards) shown in Fig.a using a SAC305(Sn96.5Ag3.0Cu0.5) solder (then let sit for 24 ± 2 hours for X7R X5R and Y5V). Then apply a force in the direction shown in Fig.b. The soldering shall be done with the reflow method and shall be conducted with care so that the soldering is uniform and free of defects such as heat shock.																																
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12	Solderability of Termination	90% of the terminations are to be soldered evenly and continuously.																																
13	Resistance to Soldering Heat	Immerse the test capacitor into a methanol solution containing rosin for 3 to 5 seconds, preheat it 150 to 180°C for 2 to 3 minutes and immerse it into SAC305(Sn96.5Ag3.0Cu0.5) solder of $245 \pm 5^\circ C$ for 3 ± 1 seconds.																																
	Appearance	No marking defects																																
	Cap. Change	X7R/X7S/X6S/X5R within $\pm \%$ Y5V within $\pm 20\%$																																
	D.F.	To satisfy the specified initial spec.																																
	I.R.	$R_{CR} \geq 50\Omega \cdot F$																																
		*Preheat the capacitor at 120 to 150°C for 1 minute. Immerse the capacitor in a SAC305(Sn96.5Ag3.0Cu0.5) solder solution at $270 \pm 5^\circ C$ for 10 ± 1 seconds. Let sit at room temperature for 24 ± 2 hours, then measure. * Preheat 150 to 200°C for size ≥ 3216 . * Initial measurement : perform a heat treatment at $150 \pm 0/-10^\circ C$ for one hour and then let sit for 24 ± 2 hours at room temperature. Perform the initial measurement.																																

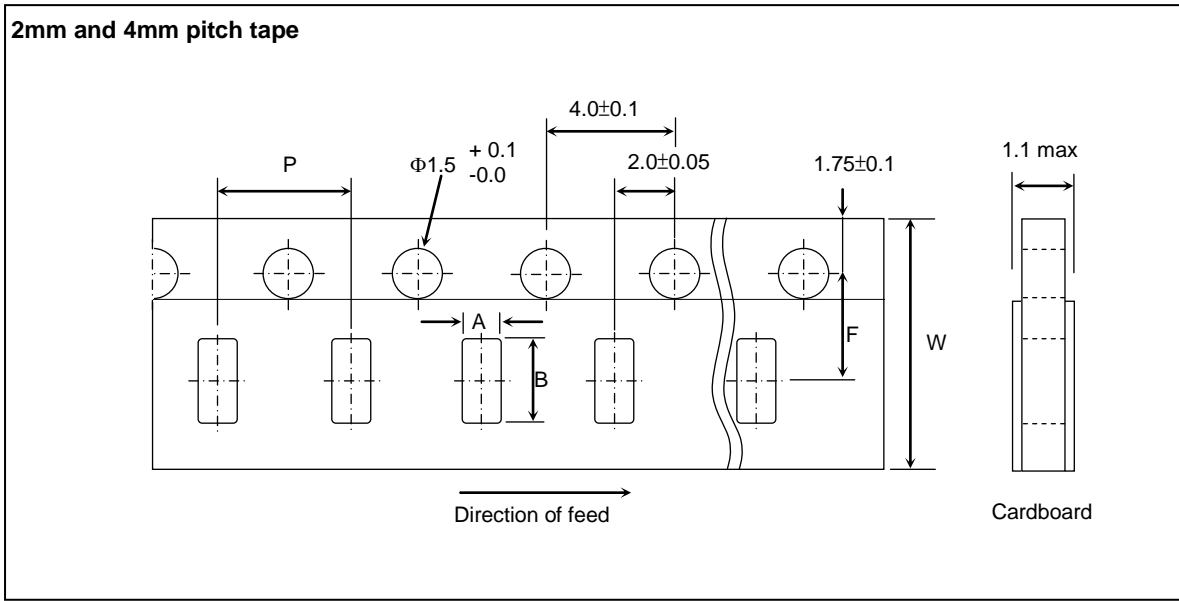
Item		Specification	Test Method
14	Temperature cycle (Thermal shock)	Appearance	Solder the capacitor to supporting jig (Glass epoxy board) and perform the five cycles according to the four heat treatments listed in the following table. Let sit for 24±2hrs at room temperature, then measure. Step 1: Minimum operating temperature 30±3min Step 2: Room temperature 2-3 min Step 3: Maximum operating temperature 30±3min Step 4: Room temperature 2-3min * Initial measurement: perform a heat treatment at 150±10°C for one hour and then let sit for 24±2 hours at room temp. Perform the initial measurement.
		Cap. Change	
		Q/D.F.	
		I.R.	
15	Humidity load	Appearance	Apply the rated voltage at 40±2°C and 90 to 95% humidity for 500±12 hours. The charge / discharge current is less than 50mA. *Initial measurement Perform a heat treatment at 150+0/-10°C for one hour and then let sit for 24±2 hours at room temperature. Perform the initial measurement. *Measurement after test Perform a heat treatment and then let sit for 24±2 hours at room temperature, then measure.
		Cap. Change	
		Q/D.F.	
		I.R.	
16	High temperature load life test	Appearance	Apply 150% of the rated voltage for 1000±12 hours at the maximum operating temperature ± 3°C. The charge / discharge current is less than 50mA. *Initial measurement Perform a heat treatment at 150+0/-10°C for one hour and then let sit for 24±2 hours at room temperature. Perform the initial measurement. *Measurement after test Perform a heat treatment and then let sit for 24±2 hours at room temperature, then measure. * Some of the parts are applicable in rated voltage *100%. Please refer to "Part Number & Characteristic" with (II)* labeled in "Test Spec."
		Cap. Change	
		D.F.	
		I.R.	

Package

- Tape and reel packaging**

Tape and reel packaging is currently the most promising system for high-speed production. A typical 180mm (7 inch) diameter reel contains 1,500 to 15,000 capacitors, 250mm (10 inch) contains 10,000 capacitors, and 330mm (13 inch) contains 10,000 to 50,000 capacitors. Three standard sizes are available in taped and reeled package either with paper carrier tapes or embossed tapes.

【Paper tape specifications】

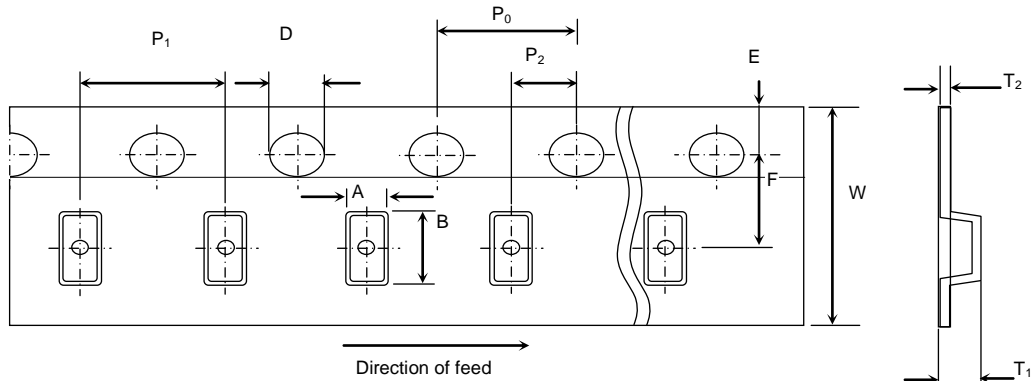


SYMBOL	PRODUCT SIZE CODE												UNIT
	0402(01005)		0603(0201)		1005(0402) (± 0.05 mm)		1005(0402) (± 0.10 mm)		1005(0402) (± 0.15 mm)		1005(0402) (± 0.20 mm)		
	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.	SIZE	TOL.	
A	0.23	± 0.02	0.38	± 0.04	0.65	± 0.10	0.70	± 0.10	0.72	± 0.10	0.80	± 0.10	mm
B	0.43	± 0.02	0.68	± 0.04	1.15	± 0.10	1.19	± 0.10	1.25	± 0.10	1.35	± 0.10	mm
F	3.5	± 0.05	3.5	± 0.05	3.5	± 0.05	3.5	± 0.05	3.5	± 0.05	3.5	± 0.05	mm
P	2	± 0.05	2	± 0.10	2	± 0.10	2	± 0.10	2	± 0.10	2	± 0.10	mm
W	8	± 0.20	8	± 0.20	8	± 0.20	8	± 0.20	8	± 0.20	8	± 0.20	mm

SYMBOL	PRODUCT SIZE CODE (EIA)								UNIT
	1608 (0603) (± 0.15 mm)		1608 (0603) (± 0.20 mm)		2012 (0805)		3216 (1206)		
	Size	Tol.	Size	Tol.	Size	Tol.	Size	Tol.	
A	1.0	± 0.2	1.1	± 0.2	1.5	± 0.2	1.9	± 0.2	mm
B	1.8	± 0.2	1.9	± 0.2	2.3	± 0.2	3.6	± 0.2	mm
F	3.5	± 0.05	3.5	± 0.05	3.5	± 0.05	3.5	± 0.05	mm
P	4	± 0.1	4	± 0.1	4	± 0.1	4	± 0.1	mm
W	8	± 0.2	8	± 0.2	8	± 0.2	8	± 0.2	mm

【 Embossed tape specifications 】

1mm and 4mm and 8mm pitch tape

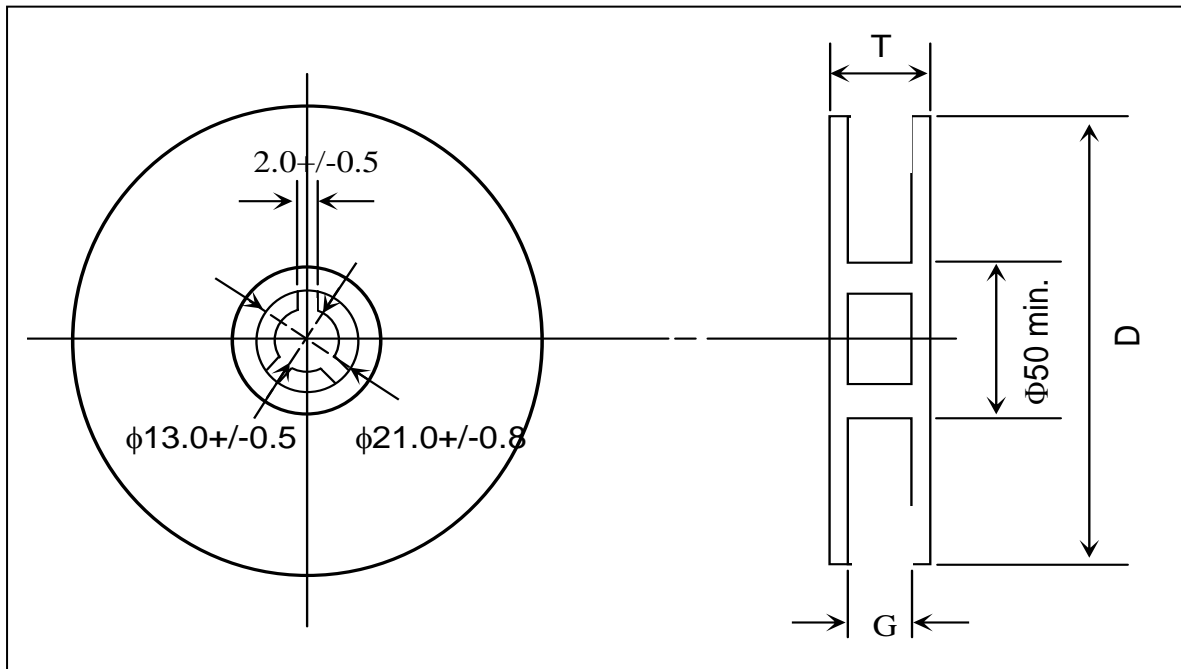


For $W=8\text{mm}$: $T_1=2.5\text{mm}$ max.

For $W=12\text{mm}$: $T_1=4.5\text{mm}$

DIMENSION (mm)	PRODUCT SIZE CODE						
	1mm tape	4 mm tape				8 mm tape	
	0402 (01005)	1608 (0603)	2012 (0805)	3216 (1206)	3225 (1210)	4520 (1808)	4532 (1812)
P_1	1 ± 0.02	4 ± 0.1	4 ± 0.1	4 ± 0.1	4 ± 0.1	8 ± 0.1	8 ± 0.1
P_0	2 ± 0.04	4 ± 0.1	4 ± 0.1	4 ± 0.1	4 ± 0.1	4 ± 0.1	4 ± 0.1
P_2	1 ± 0.02	2 ± 0.05	2 ± 0.05	2 ± 0.05	2 ± 0.05	2 ± 0.05	2 ± 0.05
A	0.23 ± 0.02	1.2 ± 0.2	1.45 ± 0.2	1.9 ± 0.2	2.8 ± 0.2	2.3 ± 0.2	3.6 ± 0.2
B	0.43 ± 0.02	2.0 ± 0.2	2.3 ± 0.2	3.5 ± 0.2	3.6 ± 0.2	4.9 ± 0.2	4.9 ± 0.2
W	4 ± 0.05	8 ± 0.3	8 ± 0.2	8 ± 0.2	8 ± 0.2	12 ± 0.2	12 ± 0.2
E	0.9 ± 0.05	1.75 ± 0.1	1.75 ± 0.1	1.75 ± 0.1	1.75 ± 0.1	1.75 ± 0.1	1.75 ± 0.1
F	1.8 ± 0.02	3.5 ± 0.05	3.5 ± 0.05	3.5 ± 0.05	3.5 ± 0.05	5.5 ± 0.05	5.5 ± 0.05
D	0.8 ± 0.04	1.5 (+0.1/-0.0)	1.5 (+0.1/-0.0)	1.5 (+0.1/-0.0)	1.5 (+0.1/-0.0)	1.5 (+0.1/-0.0)	1.5 (+0.1/-0.0)
T_1	0.5 max	1.4 max.	2.5 max.	2.5 max.	2.5 max.	4.5	4.5
T_2	0.15~0.40	0.25 ± 0.1	0.305 ± 0.1	0.30 ± 0.1	0.30 ± 0.1	0.30 ± 0.1	0.30 ± 0.1

【Reel specifications】



TAPE WIDTH (mm)	G (mm)	T max. (mm)	D (mm)
4	5.0 ± 1.5	8.0	180
8	10.0 ± 1.5	14.5	180
8	10.0 ± 1.5	14.5	250
8	10.0 ± 1.5	14.5	330
12	14.0 ± 1.5	18.5	180

【Thickness and Packing Amount】

Thickness			Amount per reel			
Code	Spec.(mm)	Size (EIA)	180 mm (7")		330 mm (13")	
			Paper	Embossed	Paper	Embossed
Z	0.20	0402 (01005)	20K	40K ^{#1}		
A	0.30	0603 (0201)	15K		50K	
		1005 (0402)	15K		50K	
B	0.50	1005 (0402)	10K		50K	
Q	0.45	1005 (0402)	10K		50K	
		1608 (0603)	4K		15K	
C	0.60	2012 (0805)	4K		15K	
		3216 (1206)	4K		15K	
D	0.80	1608 (0603)	4K	4K	15K	
E	0.85	2012 (0805)	4K		15K	
		3216 (1206)	4K		15K	
		3225 (1210)		3K		10K
I	0.95	4532 (1812)		1K		
		2012 (0805)		3K		
F	1.15	3216 (1206)		3K		
		4520 (1808)		3K		10K
H	1.25	3216 (1206)		3K		10K
		4520 (1808)		2K/3K		10K
		4532 (1812)		1K		
		3225 (1210)		3K		
		3216 (1206)		2K		
		3225 (1210)		2K		
L	1.60	4520 (1808)		2K		
		4532 (1812)		1K		
		3216 (1206)		2K/3K		
		3225 (1210)		2K		
N	2.00	4520 (1808)		1K		
		4532 (1812)		1K		
		3216 (1206)		500pcs/1K		
		3225 (1210)				
P	2.50	3225 (1210)				

#1: 4mm width 1mm pitch Embossed Taping

【Packing Rule】

EIA SIZE	Tape	Reel Size	Reels/Box	Boxes/ Carton
01005	Emboss	7"	8	12
01005	Paper	7"	5	12
0201	Paper	7"	5	12
0402	Paper	7"	5	12
0603	Paper/Emboss	7"	5	12
0805	Paper/Emboss	7"	5	12
1206	Paper/Emboss	7"	5	12
1210	Emboss	7"	5	12
1808	Emboss	7"	5	12
1812	Emboss	7"	5	12

Others

【Storage】

1. The chip capacitors shall be packaged in carrier tapes or bulk cases.
2. Keep storage place temperatures from +5°C to +35°C, humidity from 45 to 70% RH.
3. The storage atmosphere must be free of gas containing sulfur and chlorine. Also, avoid exposing the product to saline moisture. If the product is exposed to such atmospheres, the terminations will oxidize and solderability will be affected.
4. The solderability is assured for 12 months from our final inspection date if the above storage condition is followed.

【Circuit Design】

1. Once application and assembly environments have been checked, the capacitor may be used in conformance with the rating and performance, which are provided in both the catalog and the specifications. Exceeding the specifications listed may result in inferior performance. It may also cause a short, open, smoking, or flaming to occur, etc.
2. Please use the capacitors in conformance with the operating temperature provided in both the catalog and the specifications. Be especially cautious not to exceed the maximum temperature. In the situation the maximum temperature set forth in both the catalog and specifications is exceeded, the capacitor's insulation resistance may deteriorate, power may suddenly surge and short-circuit may occur. The loss of capacitance will occur, and may self-heat due to equivalent series resistance when alternating electric current is passed through. As this effect becomes critical in high frequency circuits, please exercise with caution. When using the capacitor in a (self-heating) circuit, please make sure the surface of the capacitor remains under the maximum temperature for usage. Also, please make certain temperature rise remain below 20°C.
3. Please keep voltage under the rated voltage, which is applied to the capacitor. Also, please make certain the peak voltage remains below the rated voltage when AC voltage is super-imposed to the DC voltage. In the situation where AC or pulse voltage is employed, ensure average peak voltage does not exceed the rated voltage. Exceeding the rated voltage provided in both catalog and specifications may lead to defective withstanding voltage or, in worse case situations, may cause the capacitor to burn out.
4. It's is a common phenomenon of high-dielectric products to have a deteriorated amount of static electricity due to the application of DC voltage.

【Handling】

Chip capacitors should be handled with care to avoid contamination or damage. The use of vacuum pick-up or plastic tweezers is recommended for manual placement. Tape and reeled packages are suitable for automatic pick and placement machine.

【Flux】

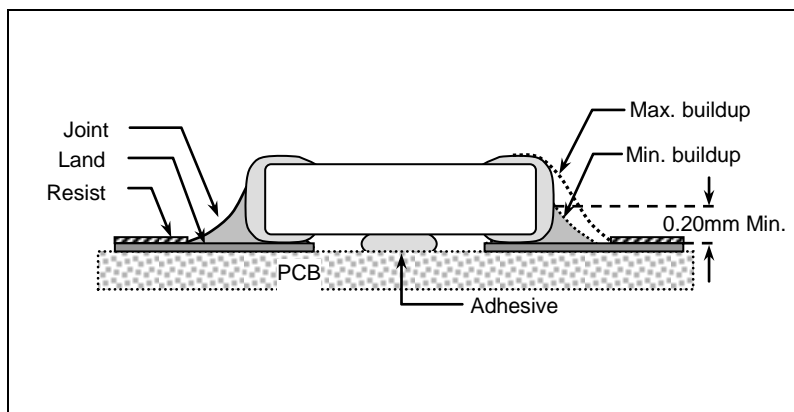
1. An excessive amount of flux or too rapid temperature rise can causes solvent burst, solder can generate a large quantity of gas. The gas can spreads small solder particles to cause solder balling effect or bridging problem.
2. Flux containing too high of a percentage of halide may cause corrosion of termination unless sufficient cleaning is applied.
3. Use rosin-type flux. Highly acidic flux (halide content less than 0.2wt%) is not recommended.
4. The water soluble flux causes deteriorated insulation resistance between outer terminations unless sufficiently cleaned.

【Component Spacing】

For wave soldering components, the spacing must be sufficient far apart to prevent bridging or shadowing. This is not so important for reflow process but enough space for rework should be considered. The suggested spacing for reflow soldering and wave soldering is 0.5mm and 1.0mm, respectively.

【Solder Fillet】

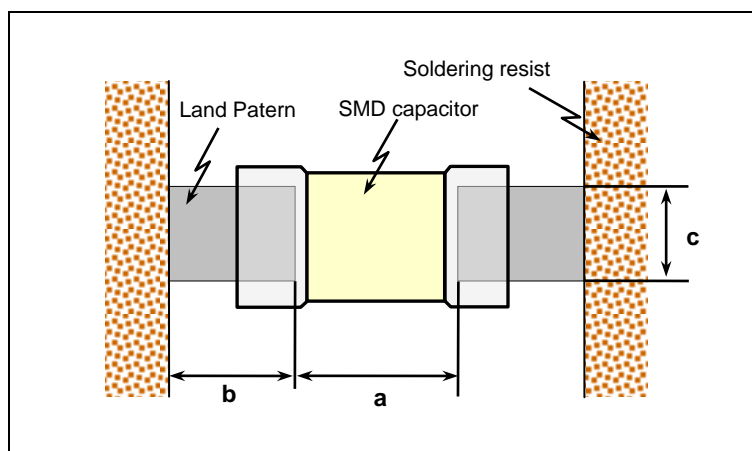
Too much solder amount may increase solder stress and cause crack risk. Insufficient solder amount may reduce adhesive Strength and cause parts falling off PCB. When soldering, confirm that the solder is placed over 0.2mm of the surface of the terminations.



【Recommended Land Pattern Dimensions】

When mounting the capacitor to substrate, it's important to consider that the amount of solder (size of fillet) used has a direct effect upon the capacitor once it's mounted.

1. The greater the amount of solder, the greater the stress to the elements, as this may cause the substrate to break or crack.
2. In the situation where two or more devices are mounted onto a common land, separate the device into exclusive pads by using soldering resist.
3. Land width equal to or less than component. It is permissible to reduce land width to 80% of component width.



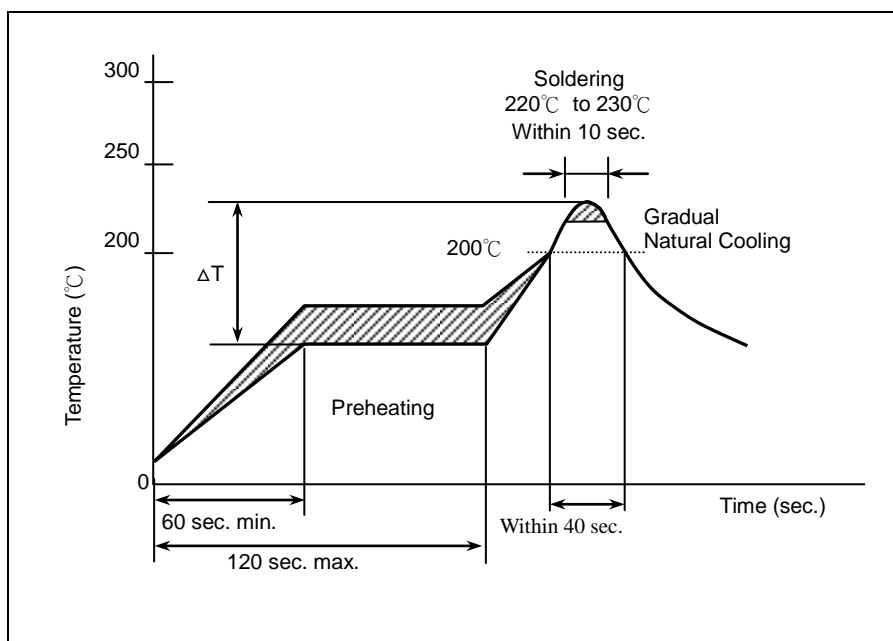
Size mm (EIA)	L x W (mm) (Dimension tolerance)	a (mm)	b (mm)	c (mm)
0402 (01005)	0.4*0.2	0.16 to 0.20	0.12 to 0.18	0.20 to 0.23
0603 (0201)	0.6*0.3	0.15 to 0.35	0.2 to 0.3	0.25 to 0.3
1005 (0402)	1.0*0.5 (within±0.10)	0.3 to 0.5	0.35 to 0.45	0.4 to 0.5
	1.0*0.5 (±0.15 or ±0.20)	0.4 to 0.6	0.4 to 0.5	0.5 to 0.6
1608 (0603)	1.6*0.8 (within±0.10)	0.7 to 1.0	0.6 to 0.8	0.7 to 0.8
	1.6*0.8 (±0.15 or ±0.20)	0.8 to 1.1	0.7 to 0.9	0.8 to 0.9
2012 (0805)	2.0*1.25	1.0 to 1.3	0.7 to 0.9	1.0 to 1.2
3216 (1206)	3.2*1.6	2.1 to 2.5	1.0 to 1.2	1.3 to 1.6
3225 (1210)	3.2*2.5	2.1 to 2.5	1.0 to 1.2	2.0 to 2.5
4520 (1808)	4.5*2.0	3.2 to 3.8	1.2 to 1.4	1.7 to 2.0
4532 (1812)	4.5*3.2	3.2 to 3.8	1.2 to 1.4	2.7 to 3.2

[Resin Mold]

If a large amount of resin is used for molding the chip, cracks may occur due to contraction stress during curing. To avoid such cracks, use a low shrinkage resin. The insulation resistance of the chip will degrade due to moisture absorption. Use a low moisture absorption resin. Check carefully that the resin does not generate a decomposition gas or reaction gas during the curing process or during normal storage. Such gases may crack the chip capacitor or damage the device itself.

[Soldering Profile for SMT Process with SnPb Solder Paste]

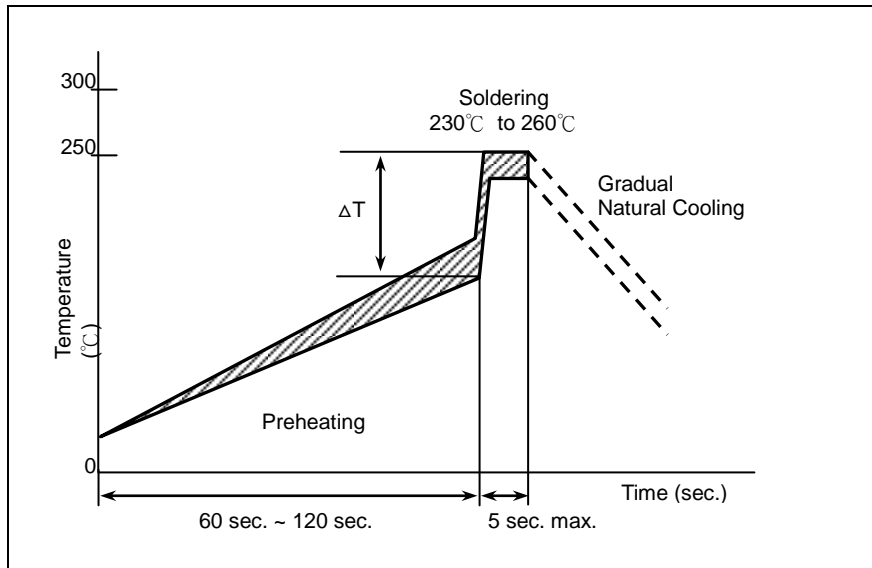
Reflow Soldering



The difference between solder and chip surface should be controlled as following table. The rate of preheat should not exceed 4°C/sec and a target of 2°C/sec is preferred.

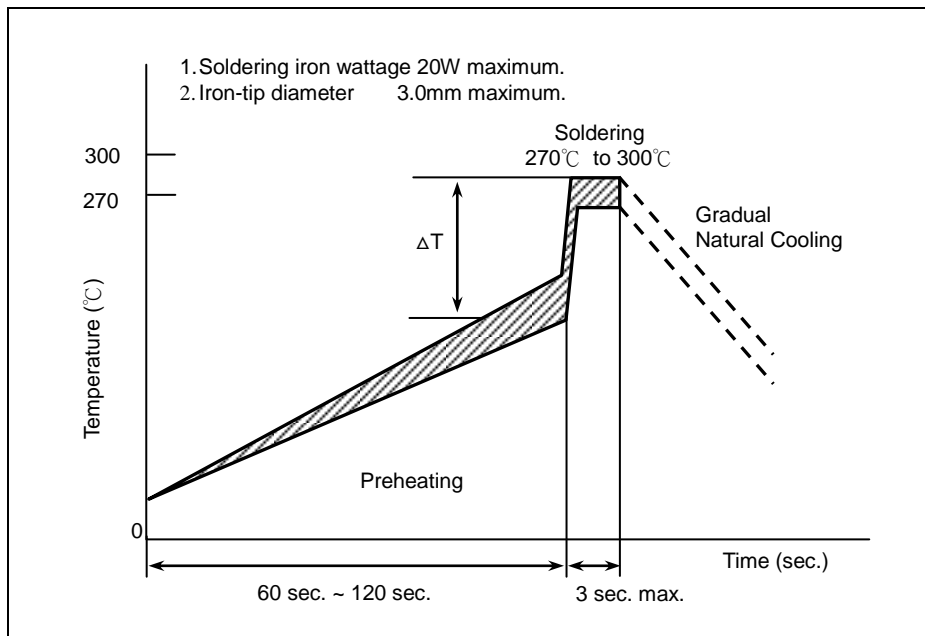
Chip Size	3216 and smaller	3225 and above
Preheating	$\Delta T \leq 150^\circ\text{C}$	$\Delta T \leq 130^\circ\text{C}$

Wave Soldering



Chip Size	3216 and smaller	3225 and above
Preheating	$\Delta T \leq 150^\circ\text{C}$	-

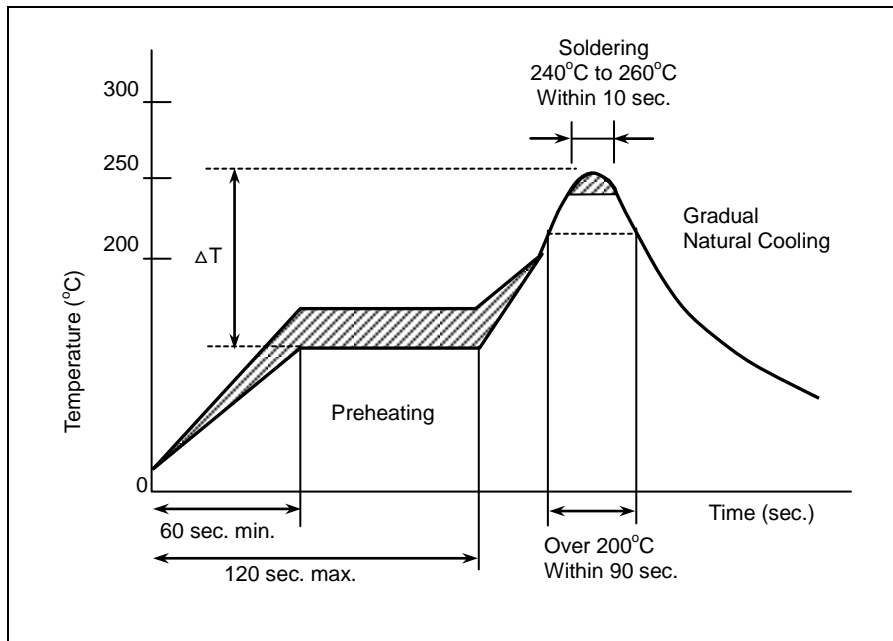
Soldering Iron



Chip Size	3216 and smaller	3225 and above
Preheating	$\Delta T \leq 190^\circ\text{C}$	$\Delta T \leq 130^\circ\text{C}$

[Soldering]

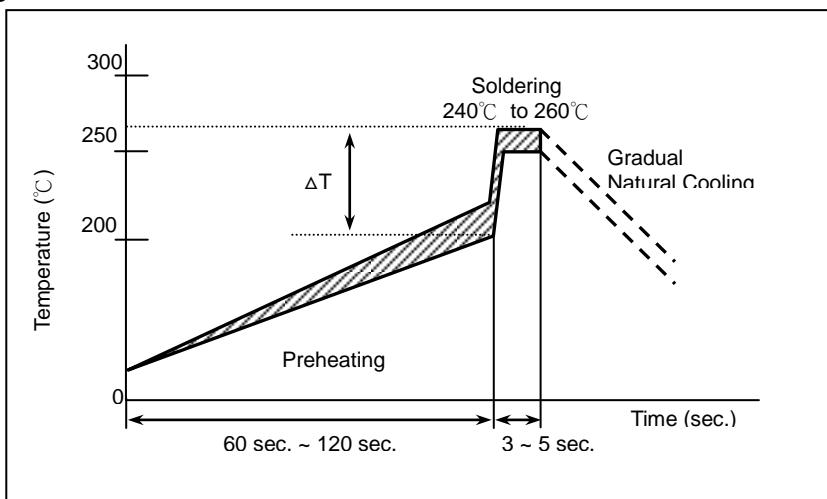
Reflow Soldering for Lead free Termination



The difference between solder and chip surface should be controlled as following table. The rate of preheat should not exceed 4°C/sec and a target of 2°C/sec is preferred.

Chip Size	3216 and smaller	3225 and above
Preheating	$\Delta T \leq 150^\circ\text{C}$	$\Delta T \leq 130^\circ\text{C}$

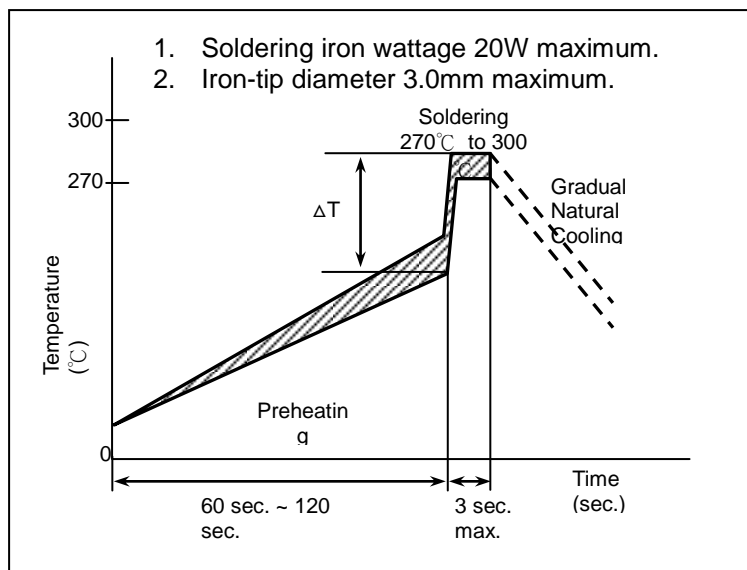
Flow Soldering for Lead free Termination



Chip Size	3216 and smaller	3225 and above
Preheating	$\Delta T \leq 150^\circ\text{C}$	-

MLCC

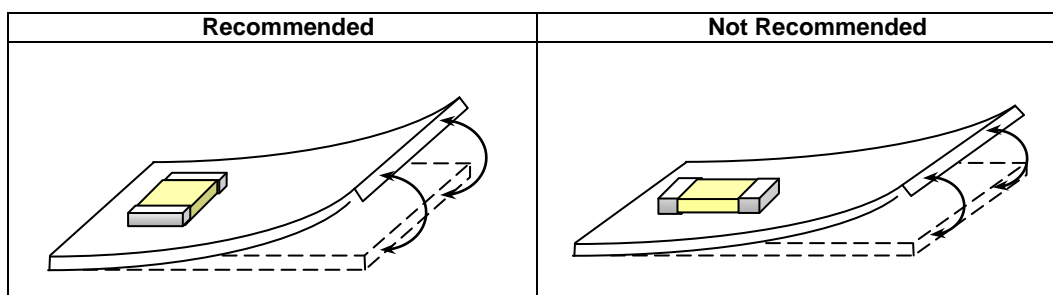
Soldering Iron



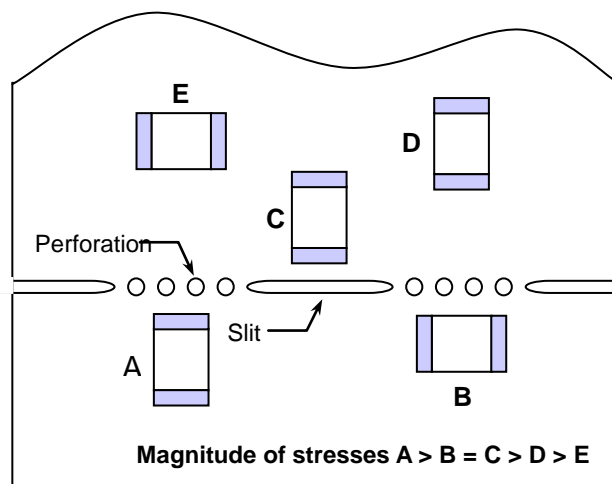
Chip Size	3216 and smaller	3225 and above
Preheating	$\Delta T \leq 190^{\circ}\text{C}$	$\Delta T \leq 130^{\circ}\text{C}$

【Chip Layout and Breaking PCB】

- To layout the SMD capacitors for reducing bend stress from board deflection of PCB. The following are examples of Hood and bad layout.

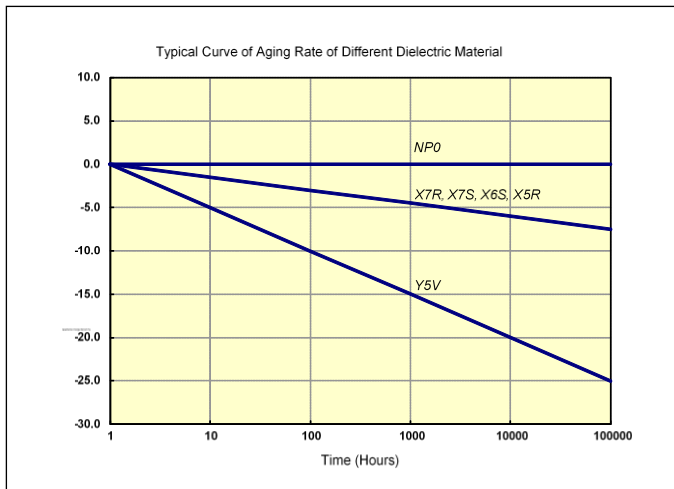


- When breaking PCB, the layout should be noted that the mechanical stresses are depending on the position of capacitors. The following example shows recommendation for better design.



【Aging Rate】

The capacitance and dissipation factor of class 2 capacitors decreases with time. It is known as ‘aging’ that follows a logarithmic law and expressed in terms of an aging constant. Aging is caused by a gradual re-alignment of the crystalline structure of the ceramic. The aging constant is defined as the percentage loss of capacitance at a ‘time decade’. The law of capacitance aging is expressed as following equation:



$$C_{t2} = C_{t1} \times (1 - k \times \log_{10}(t_2/t_1))$$

C_{t1} : Capacitance after t_1 hours of start aging.

C_{t2} : Capacitance after t_2 hours of start aging.

k : aging constant (capacitance decrease per decade)

t_1, t_2 : time in hours from start of aging.

A typical curve of aging rate is shown in following figure.

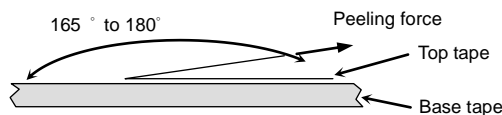
When heating the capacitors above Curie temperature (130°C~150°C) the capacitance can be re-new. So capacitance of class 2 capacitors will be complete de-aged by soldering process; subsequently a new aging process begins.

Because of aging, it is specified an age for measurement to meet the prescribed tolerance for class 2 capacitors. Normally, 1000 hours ($t_2=1000$ hrs) is defined.

【Peeling Off Force】

Peeling off force: 0.1N to 1.0 N* in the direction shown as below.

The peeling speed: 300±10 mm/min



1. The taped tape on reel is wound clockwise. The sprocket holes are to the right as the tape is pulled toward the user.
2. There are minimum 150 mm as the leader and minimum 40 mm empty tape as the tail is attached to the end of the tape.