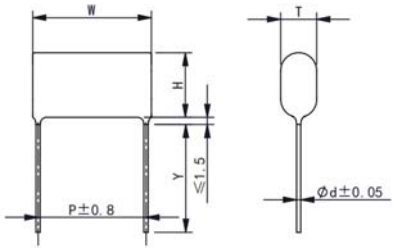
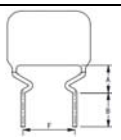
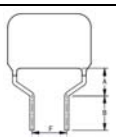
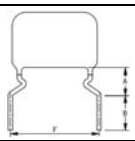
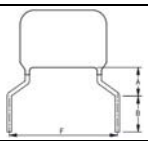
Version history

Current version	Date	Author	Change description

Metallized polypropylene film capacitor(Dipped)

Outline Drawing



Forming Lead Shapes			
I	II	III	IV
			
P ≥ F		P < F	
0mm≤ P-F≤ 3mm	3mm<P-F≤ 8mm	3mm<F-P≤ 5mm	0mm<F-P≤ 3mm
F±0.8mm; A≤ 5.0mm; B=4.5±0.5mm			

■ Features

- Metallized polypropylene structure.
- Excellent electric property.
- Flame retardant epoxy resin powder coating (UL94 V-0)

■ Typical application

- As intermediate circuit capacitors for SMPS, Electronic Ballast,inverter (i.e. DC-Link, DC-filter and P.F.C)

■ Specifications

Reference Standard	GB/T 10190(IEC 60384-16)							
Climatic Category	40/105/56							
Rated temperature	85℃							
Operating temperature range	-40℃~105℃ (+85℃ to +105℃: decreasing factor 1.25% per ℃ for U_R)							
Rated Voltage	450Vdc; 520Vdc; 630Vdc;							
Capacitance Range	0.027μF~18.0μF							
Capacitance Tolerance	J(±5%), K(±10%), M(±20%)							
Voltage Proof	1.6U_R (5s)							
Dissipation Factor	≤ 10×10^{-4}(20℃, 1kHz)							
Insulation Resistance	≥100 000MΩ, C_N ≤0.33μF ≥30 000s, C_N >0.33μF (20℃,100V,1min)							
Maximum Pulse Rise Time(dV/dt) If the working voltage(U) is lower than the rated voltage(UR),the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with U_R/U.	U_R(V)	dV/dt(V/μs) ——Miniature version				dV/dt(V/μs)			
		P=10.0	P=15.0	P=22.5	P=27.5	P=10.0	P=15.0	P=22.5	P=27.5
	450	100	65	35	20	300	200	100	80
	520	120	80	60	40	350	220	150	100
	630	200	160	70	50	400	300	180	120

■ Part number system

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	7												

Digit 1 to 3 Series code

C37

Digit 4 to 5 D.C. rated voltage:

2S=450V 2T=520V 2J=630V

Digit 6 to 8 Rated capacitance value

For example: 103=10×10^3pF=0.01uF

Digit 9 Capacitance tolerance

J=±5%, K=±10%, M=±20%

Digit 10 Pitch

4=10mm 6=15mm 9=22.5mm B=27.5mm

Digit 11 Internal use

Digit 12 to 15 Lead form and packaging code

Table 1 Lead form and packing code

Digit 12		Digit 13		Digit 14		Digit 15	
code	explanation	code	explanation	code	explanation	code	explanation
A	ammo-pack	2 3 4 6	F=5.0mm F=7.5mm F=10.0mm F=15.0mm	1	kinked	A	each cap. between two consecutive holes P3=12.7mm,H=20.0mm (For pitch=7.5mm)
						E	P3=25.4mm;H=20.0mm (For pitch=10.0/15mm)
F	lead kinked	2 3 4 6	F=5.0mm F=7.5mm F=10.0mm F=15.0mm	0 5 2	B=4.5mm (The length of B) B=3.5mm B=3.2mm	0	B Length tolerance ±0.5mm
Y	straight lead "Y" in the figure above	code	explanation			0	Length tolerance ±0.5mm Or standard length
		45 35 32	lead length 4.5mm lead length 3.5mm lead length 3.2mm				
Digit12-15 code "C000" means standard lead length (18mm ~ 30mm) Note: Recommend short lead due to long lead could deform easily.							

■ Dimensions(mm) Miniature version—— (Small size+ Segmented metallized-film design)

450Vdc						
C_N (μ	W max	H max	T max	P	d	Part number
0.10	12.5	7.7	4.0	10.0	0.6	C372S104-4S****
0.12	12.5	7.9	4.3	10.0	0.6	C372S124-4S****
0.15	12.5	8.8	4.6	10.0	0.6	C372S154-4S****
0.18	12.5	9.1	4.7	10.0	0.6	C372S184-4S****
0.22	12.5	9.5	5.0	10.0	0.6	C372S224-4S****
0.27	12.5	10.4	5.7	10.0	0.6	C372S274-4S****
0.33	12.5	10.9	6.2	10.0	0.6	C372S334-4S****
0.39	12.5	11.4	6.6	10.0	0.6	C372S394-4S****
0.47	12.5	11.8	7.1	10.0	0.6	C372S474-4S****
1.0	12.5	14.8	9.4	10.0	0.6	C372S105-4S****
0.27	17.8	9.4	4.8	15.0	0.6	C372S274-6S****
0.33	17.8	9.8	5.1	15.0	0.6	C372S334-6S****
0.39	17.8	10.6	5.9	15.0	0.6	C372S394-6S****
0.47	17.8	11.5	6.0	15.0	0.6	C372S474-6S****
0.56	17.8	11.9	6.4	15.0	0.6	C372S564-6S****
0.68	17.8	13.4	6.4	15.0	0.6	C372S684-6S****
0.82	17.8	13.9	7.0	15.0	0.6	C372S824-6S****
1.0	17.8	14.5	7.5	15.0	0.6	C372S105-6S****
1.2	17.8	15.1	8.1	15.0	0.8	C372S125-6S****
1.5	17.8	16.0	9.0	15.0	0.8	C372S155-6S****
1.8	17.8	16.7	9.7	15.0	0.8	C372S185-6S****
2.2	17.8	17.7	10.7	15.0	0.8	C372S225-6S****
0.47	25.5	10.6	5.1	22.5	0.6	C372S474-9S****
0.56	25.5	10.9	5.4	22.5	0.6	C372S564-9S****
0.68	25.5	11.2	5.7	22.5	0.6	C372S684-9S****
0.82	25.5	11.6	6.2	22.5	0.6	C372S824-9S****
1.0	25.5	12.1	6.7	22.5	0.6	C372S105-9S****
1.2	25.5	13.7	6.7	22.5	0.6	C372S125-9S****
1.5	25.5	14.3	7.3	22.5	0.6	C372S155-9S****
1.8	25.5	14.9	7.9	22.5	0.8	C372S185-9S****
2.2	25.5	16.6	8.1	22.5	0.8	C372S225-9S****
2.7	25.5	17.4	8.9	22.5	0.8	C372S275-9S****
3.3	25.5	18.3	9.7	22.5	0.8	C372S335-9S****
3.9	25.5	19.1	10.5	22.5	0.8	C372S395-9S****
4.7	25.5	20.1	11.6	22.5	0.8	C372S475-9S****
5.6	25.5	21.2	12.6	22.5	0.8	C372S565-9S****
1.5	30.7	15.0	6.1	27.5	0.8	C372S155-BS****
1.8	30.7	15.3	6.7	27.5	0.8	C372S185-BS****
2.2	30.7	15.9	7.3	27.5	0.8	C372S225-BS****
2.7	30.7	16.5	8.0	27.5	0.8	C372S275-BS****
3.3	30.7	17.3	8.8	27.5	0.8	C372S335-BS****
3.9	30.7	18.0	9.5	27.5	0.8	C372S395-BS****
4.7	30.7	19.9	9.8	27.5	0.8	C372S475-BS****
5.6	30.7	20.8	10.7	27.5	0.8	C372S565-BS****
6.8	30.7	24.0	10.7	27.5	0.8	C372S685-BS****
8.2	30.7	25.1	11.9	27.5	0.8	C372S825-BS****
10.0	30.7	26.5	13.2	27.5	0.8	C372S106-BS****
12.0	30.7	27.8	14.6	27.5	0.8	C372S126-BS****
15..0	30.7	27.9	17.8	27.5	0.8	C372S156-BS****
18.0	30.7	29.7	19.6	27.5	0.8	C372S186-BS****

520Vdc						
C_N (μ F)	W max	H max	T max	P	d	Part number
0.068	12.5	7.7	4.0	10.0	0.6	C372T683-4S****
0.082	12.5	7.9	4.2	10.0	0.6	C372T823-4S****
0.10	12.5	8.8	4.5	10.0	0.6	C372T104-4S****
0.12	12.5	8.8	4.8	10.0	0.6	C372T124-4S****
0.15	12.5	9.5	4.9	10.0	0.6	C372T154-4S****
0.18	12.5	10.4	5.3	10.0	0.6	C372T184-4S****
0.22	12.5	10.4	5.7	10.0	0.6	C372T224-4S****
0.27	12.5	10.9	6.5	10.0	0.6	C372T274-4S****
0.33	12.5	11.4	7.1	10.0	0.6	C372T334-4S****
0.18	17.8	9.3	4.7	15.0	0.6	C372T184-6S****
0.22	17.8	9.6	5.0	15.0	0.6	C372T224-6S****
0.27	17.8	10.0	5.4	15.0	0.6	C372T274-6S****
0.33	17.8	11.0	5.5	15.0	0.6	C372T334-6S****
0.39	17.8	11.8	6.4	15.0	0.6	C372T394-6S****
0.47	17.8	12.3	6.9	15.0	0.6	C372T474-6S****
0.56	17.8	12.8	7.3	15.0	0.6	C372T564-6S****
0.68	17.8	14.4	7.4	15.0	0.6	C372T684-6S****
0.82	17.8	14.9	8.0	15.0	0.8	C372T824-6S****
1.0	17.8	15.7	8.7	15.0	0.8	C372T105-6S****
1.2	17.8	16.4	9.4	15.0	0.8	C372T125-6S****
1.5	17.8	17.8	10.3	15.0	0.8	C372T155-6S****
0.56	25.5	11.5	6.1	22.5	0.6	C372T564-9S****
0.68	25.5	12.0	6.6	22.5	0.6	C372T684-9S****
0.82	25.5	12.5	7.1	22.5	0.6	C372T824-9S****
1.0	25.5	14.1	7.1	22.5	0.6	C372T105-9S****
1.2	25.5	14.6	7.6	22.5	0.6	C372T125-9S****
1.5	25.5	16.4	7.9	22.5	0.8	C372T155-9S****
1.8	25.5	17.1	8.5	22.5	0.8	C372T185-9S****
2.2	25.5	17.9	9.4	22.5	0.8	C372T225-9S****
2.7	25.5	18.9	10.3	22.5	0.8	C372T275-9S****
3.3	25.5	19.9	11.4	22.5	0.8	C372T335-9S****
3.9	25.5	20.9	12.4	22.5	0.8	C372T395-9S****
1.2	30.7	15.1	6.5	27.5	0.6	C372T125-BS****
1.5	30.7	15.7	7.1	27.5	0.6	C372T155-BS****
1.8	30.7	17.4	7.3	27.5	0.6	C372T185-BS****
2.2	30.7	18.1	8.0	27.5	0.8	C372T225-BS****
2.7	30.7	18.9	8.8	27.5	0.8	C372T275-BS****
3.3	30.7	19.8	9.7	27.5	0.8	C372T335-BS****
3.9	30.7	20.6	10.5	27.5	0.8	C372T395-BS****
4.7	30.7	23.7	10.5	27.5	0.8	C372T475-BS****
5.6	30.7	24.8	11.5	27.5	0.8	C372T565-BS****
6.8	30.7	26.0	12.8	27.5	0.8	C372T685-BS****
8.2	30.7	27.4	14.1	27.5	0.8	C372T825-BS****
10.0	30.7	29.0	15.7	27.5	0.8	C372T106-BS****
12.0	30.7	28.9	18.8	27.5	0.8	C372T126-BS****
15.0	30.7	33.4	20.0	27.5	0.5	C372T156-BS****

630Vdc						
C_N (μ F)	W max	H max	T max	P	d	Part number
0.056	12.5	7.9	4.1	10.0	0.6	C372J563-4S****
0.068	12.5	8.8	4.4	10.0	0.6	C372J683-4S****
0.082	12.5	8.8	4.7	10.0	0.6	C372J823-4S****
0.10	12.5	8.8	5.0	10.0	0.6	C372J104-4S****
0.12	12.5	9.5	5.4	10.0	0.6	C372J124-4S****
0.15	12.5	10.4	5.6	10.0	0.6	C372J154-4S****
0.18	12.5	10.4	6.0	10.0	0.6	C372J184-4S****
0.22	12.5	11.4	6.5	10.0	0.6	C372J224-4S****
0.27	12.5	11.9	7.4	10.0	0.6	C372J274-4S****
0.15	17.8	9.5	4.9	15.0	0.6	C372J154-6S****
0.18	17.8	10.3	5.2	15.0	0.6	C372J184-6S****
0.22	17.8	10.8	5.3	15.0	0.6	C372J224-6S****
0.27	17.8	11.2	5.8	15.0	0.6	C372J274-6S****
0.33	17.8	12.8	5.8	15.0	0.6	C372J334-6S****
0.39	17.8	13.7	6.7	15.0	0.6	C372J394-6S****
0.47	17.8	14.2	7.2	15.0	0.6	C372J474-6S****
0.56	17.8	14.7	7.8	15.0	0.6	C372J564-6S****
0.68	17.8	15.4	8.4	15.0	0.8	C372J684-6S****
0.82	17.8	16.1	9.1	15.0	0.8	C372J824-6S****
1.0	17.8	17.0	10.0	15.0	0.8	C372J105-6S****
1.2	17.8	18.0	11.0	15.0	0.8	C372J125-6S****
0.47	25.5	11.9	6.4	22.5	0.6	C372J474-9S****
0.56	25.5	12.3	6.9	22.5	0.6	C372J564-9S****
0.68	25.5	12.8	7.4	22.5	0.6	C372J684-9S****
0.82	25.5	13.4	8.0	22.5	0.8	C372J824-9S****
1.0	25.5	15.1	8.1	22.5	0.8	C372J105-9S****
1.2	25.5	15.7	8.7	22.5	0.8	C372J125-9S****
1.5	25.5	17.6	9.1	22.5	0.8	C372J155-9S****
1.8	25.5	18.5	9.9	22.5	0.8	C372J185-9S****
2.2	25.5	19.5	10.9	22.5	0.8	C372J225-9S****
2.7	25.5	20.6	12.1	22.5	0.8	C372J275-9S****
3.3	25.5	22.8	12.7	22.5	0.8	C372J335-9S****
1.0	30.7	15.4	6.9	27.5	0.6	C372J105-BS****
1.2	30.7	16.0	7.4	27.5	0.6	C372J125-BS****
1.5	30.7	16.8	8.2	27.5	0.8	C372J155-BS****
1.8	30.7	18.5	8.4	27.5	0.8	C372J185-BS****
2.2	30.7	19.4	9.3	27.5	0.8	C372J225-BS****
2.7	30.7	20.4	10.2	27.5	0.8	C372J275-BS****
3.3	30.7	23.6	10.3	27.5	0.8	C372J335-BS****
3.9	30.7	24.5	11.2	27.5	0.8	C372J395-BS****
4.7	30.7	25.7	12.4	27.5	0.8	C372J475-BS****
5.6	30.7	26.9	13.7	27.5	0.8	C372J565-BS****
6.8	30.7	28.5	15.2	27.5	0.8	C372J685-BS****
8.2	30.7	30.1	16.9	27.5	0.8	C372J825-BS****
10.0	30.7	30.3	20.2	27.5	0.8	C372J106-BS****

Note: 1. "-" =capacitance tolerance code, M=±20%,K=±10%,J=±5%.
2. "****" =lead form and packing code (refer to table 1).

■ Dimensions(mm)

450Vdc						
C_N (μ F)	W max	H max	T max	P	d	Part number
0.047	12.5	7.7	4.1	10.0	0.6	C372S473-40****
0.056	12.5	7.9	4.3	10.0	0.6	C372S563-40****
0.068	12.5	8.8	4.4	10.0	0.6	C372S683-40****
0.082	12.5	9.1	4.7	10.0	0.6	C372S823-40****
0.10	12.5	9.5	5.3	10.0	0.6	C372S104-40****
0.12	12.5	10.4	5.5	10.0	0.6	C372S124-40****
0.15	12.5	10.9	6.0	10.0	0.6	C372S154-40****
0.18	12.5	11.4	6.4	10.0	0.6	C372S184-40****
0.15	17.8	9.7	5.1	15.0	0.6	C372S154-60****
0.18	17.8	10.6	5.2	15.0	0.6	C372S184-60****
0.22	17.8	11.0	5.6	15.0	0.6	C372S224-60****
0.27	17.8	11.5	6.0	15.0	0.6	C372S274-60****
0.33	17.8	12.0	6.6	15.0	0.6	C372S334-60****
0.39	17.8	12.5	7.1	15.0	0.6	C372S394-60****
0.47	17.8	14.6	7.1	15.0	0.6	C372S474-60****
0.56	17.8	15.2	7.7	15.0	0.8	C372S564-60****
0.68	17.8	15.9	8.5	15.0	0.8	C372S684-60****
0.82	17.8	16.8	9.3	15.0	0.8	C372S824-60****
1.0	17.8	17.7	10.7	15.0	0.8	C372S105-60****
1.2	17.8	18.7	11.7	15.0	0.8	C372S125-60****
0.27	25.5	10.4	5.0	22.5	0.6	C372S274-90****
0.33	25.5	10.8	5.4	22.5	0.6	C372S334-90****
0.39	25.5	11.2	5.7	22.5	0.6	C372S394-90****
0.47	25.5	11.6	6.2	22.5	0.6	C372S474-90****
0.56	25.5	13.6	6.2	22.5	0.6	C372S564-90****
0.68	25.5	14.2	6.7	22.5	0.6	C372S684-90****
0.82	25.5	15.9	6.8	22.5	0.6	C372S824-90****
1.0	25.5	16.5	8.0	22.5	0.8	C372S105-90****
1.2	25.5	17.3	8.7	22.5	0.8	C372S125-90****
1.5	25.5	18.2	9.7	22.5	0.8	C372S155-90****

450Vdc						
C_N (μ F)	W max	H max	T max	P	d	Part number
1.8	25.5	19.1	10.6	22.5	0.8	C372S185-90****
2.2	25.5	20.2	11.7	22.5	0.8	C372S225-90****
2.7	25.5	21.5	12.9	22.5	0.8	C372S275-90****
0.68	30.7	13.5	6.0	27.5	0.6	C372S684-B0****
0.82	30.7	14.0	6.6	27.5	0.6	C372S824-B0****
1.0	30.7	14.7	7.7	27.5	0.6	C372S105-B0****
1.2	30.7	16.4	7.8	27.5	0.8	C372S125-B0****
1.5	30.7	17.2	8.7	27.5	0.8	C372S155-B0****
1.8	30.7	18.0	9.4	27.5	0.8	C372S185-B0****
2.2	30.7	20.0	9.8	27.5	0.8	C372S225-B0****
2.7	30.7	23.2	9.9	27.5	0.8	C372S275-B0****
3.3	30.7	24.3	11.0	27.5	0.8	C372S335-B0****
3.9	30.7	25.3	12.0	27.5	0.8	C372S395-B0****
4.7	30.7	26.6	13.3	27.5	0.8	C372S475-B0****
5.6	30.7	28.0	14.7	27.5	0.8	C372S565-B0****
6.8	30.7	29.6	16.4	27.5	0.8	C372S685-B0****
8.2	30.7	31.4	18.2	27.5	0.8	C372S825-B0****
10.0	30.7	33.5	20.3	27.5	0.8	C372S106-B0****

520Vdc						
C_N (μ F)	W max	H max	T max	P	d	Part number
0.039	12.5	7.8	4.1	10.0	0.6	C372T393-40****
0.047	12.5	8.0	4.4	10.0	0.6	C372T473-40****
0.056	12.5	8.8	4.4	10.0	0.6	C372T563-40****
0.068	12.5	9.2	4.7	10.0	0.6	C372T683-40****
0.082	12.5	9.5	5.1	10.0	0.6	C372T823-40****
0.1	12.5	10.5	5.6	10.0	0.6	C372T104-40****
0.12	12.5	10.9	6.0	10.0	0.6	C372T124-40****
0.15	12.5	11.5	6.6	10.0	0.6	C372T154-40****
0.18	12.5	12.0	7.1	10.0	0.6	C372T184-40****
0.10	17.8	9.4	4.8	15.0	0.6	C372T104-60****
0.12	17.8	9.7	5.1	15.0	0.6	C372T124-60****
0.15	17.8	10.1	5.5	15.0	0.6	C372T154-60****
0.18	17.8	10.5	5.9	15.0	0.6	C372T184-60****
0.22	17.8	11.0	6.4	15.0	0.6	C372T224-60****
0.27	17.8	12.1	6.6	15.0	0.6	C372T274-60****
0.33	17.8	12.6	7.2	15.0	0.6	C372T334-60****
0.39	17.8	14.7	7.2	15.0	0.6	C372T394-60****
0.47	17.8	15.4	7.9	15.0	0.8	C372T474-60****
0.56	17.8	16.1	8.6	15.0	0.8	C372T564-60****
0.68	17.8	16.9	9.4	15.0	0.8	C372T684-60****
0.82	17.8	17.8	10.3	15.0	0.8	C372T824-60****
1.0	17.8	18.9	11.9	15.0	0.8	C372T105-60****
0.33	25.5	11.3	5.9	22.5	0.6	C372T334-90****
0.39	25.5	11.7	6.3	22.5	0.6	C372T394-90****
0.47	25.5	13.8	6.3	22.5	0.6	C372T474-90****
0.56	25.5	14.3	6.8	22.5	0.6	C372T564-90****
0.68	25.5	16.0	6.9	22.5	0.6	C372T684-90****
0.82	25.5	16.6	7.6	22.5	0.8	C372T824-90****
1.0	25.5	17.4	8.9	22.5	0.8	C372T105-90****
1.2	25.5	18.2	9.7	22.5	0.8	C372T125-90****

Note: 1. "-" =capacitance tolerance code, M=±20%,K=±10%,J=±5%.
2. "****" =lead form and packing code (refer to table 1).

■ Dimensions(mm)

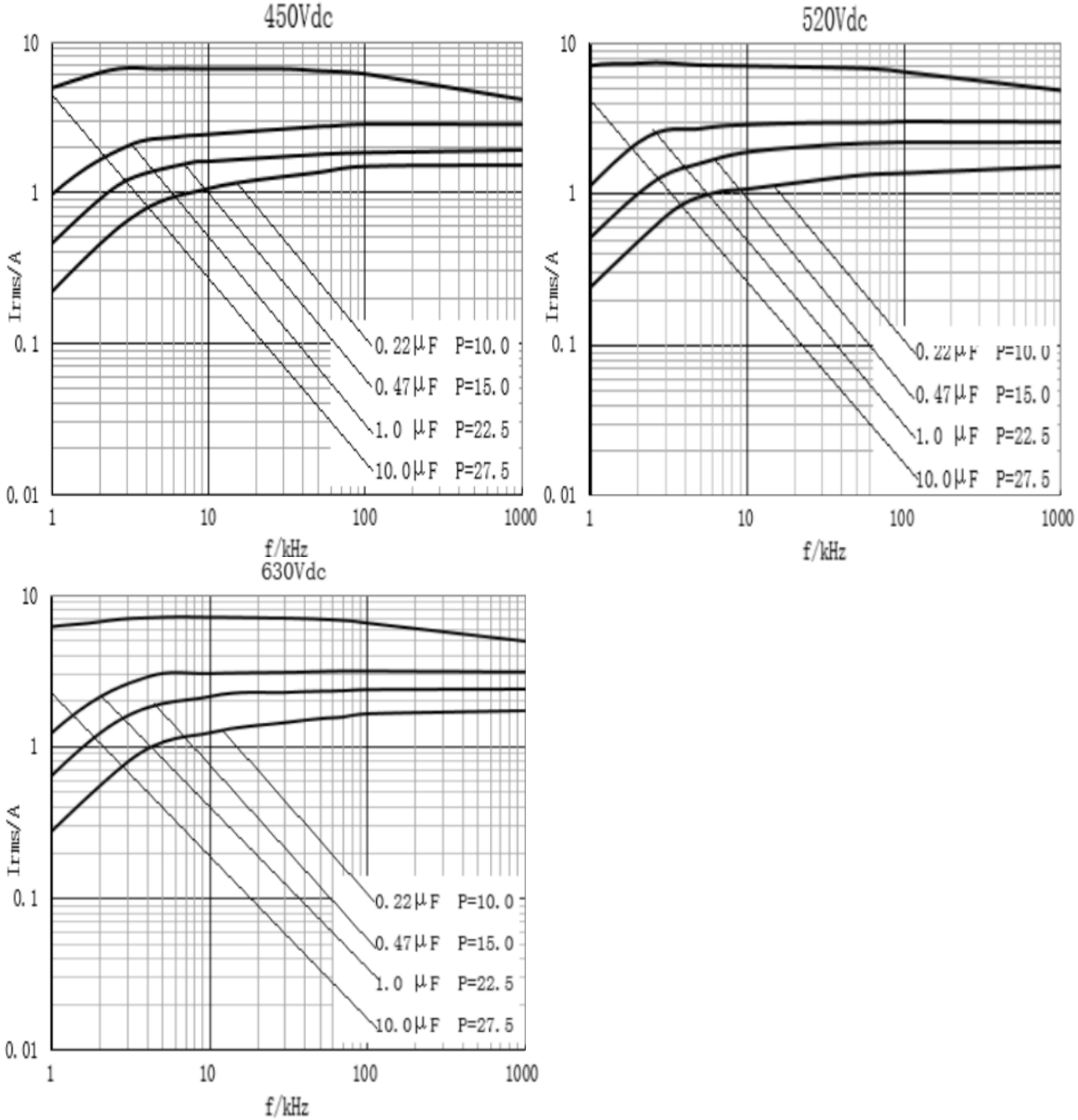
520Vdc						
CN (μ	W max	H max	T max	P	d	Part number
1.5	25.5	20.3	10.2	22.5	0.8	C372T155-90****
1.8	25.5	21.3	11.2	22.5	0.8	C372T185-90****
2.2	25.5	22.5	12.4	22.5	0.8	C372T225-90****
0.47	30.7	11.6	6.2	27.5	0.6	C372T474-B0****
0.56	30.7	12.1	6.6	27.5	0.6	C372T564-B0****
0.68	30.7	12.6	7.2	27.5	0.6	C372T684-B0****
0.82	30.7	13.8	7.8	27.5	0.8	C372T824-B0****
1.0	30.7	14.5	9.1	27.5	0.8	C372T105-B0****
1.2	30.7	16.2	9.2	27.5	0.8	C372T125-B0****
1.5	30.7	17.2	10.2	27.5	0.8	C372T155-B0****
1.8	30.7	19.0	10.5	27.5	0.8	C372T185-B0****
2.2	30.7	21.1	11.0	27.5	0.8	C372T225-B0****
2.7	30.7	24.4	11.1	27.5	0.8	C372T275-B0****
3.3	30.7	25.6	12.4	27.5	0.8	C372T335-B0****
3.9	30.7	26.8	13.6	27.5	0.8	C372T395-B0****
4.7	30.7	28.3	15.0	27.5	0.8	C372T475-B0****
5.6	30.7	29.8	16.6	27.5	0.8	C372T565-B0****
6.8	30.7	31.7	18.4	27.5	0.8	C372T685-B0****
8.2	30.7	33.7	20.5	27.5	0.8	C372T825-B0****

630Vdc						
CN (μ F)	W max	H max	T max	P	d	Part number
0.027	12.5	7.8	4.2	10.0	0.6	C372J273-40****
0.033	12.5	8.1	4.5	10.0	0.6	C372J333-40****
0.039	12.5	8.9	4.5	10.0	0.6	C372J393-40****
0.047	12.5	9.2	4.8	10.0	0.6	C372J473-40****
0.056	12.5	9.6	5.1	10.0	0.6	C372J563-40****
0.068	12.5	10.5	5.3	10.0	0.6	C372J683-40****
0.082	12.5	10.9	5.7	10.0	0.6	C372J823-40****
0.10	12.5	11.4	6.5	10.0	0.6	C372J104-40****
0.12	12.5	12.0	7.0	10.0	0.6	C372J124-40****
0.15	12.5	12.7	7.8	10.0	0.6	C372J154-40****
0.068	17.8	9.4	4.5	15.0	0.6	C372J683-60****
0.082	17.8	9.7	4.8	15.0	0.6	C372J823-60****
0.10	17.8	10.7	5.3	15.0	0.6	C372J104-60****
0.12	17.8	11.0	5.6	15.0	0.6	C372J124-60****
0.15	17.8	11.6	6.1	15.0	0.6	C372J154-60****
0.18	17.8	12.0	6.6	15.0	0.6	C372J184-60****
0.22	17.8	14.1	6.7	15.0	0.6	C372J224-60****
0.27	17.8	14.8	7.3	15.0	0.6	C372J274-60****
0.33	17.8	15.5	8.0	15.0	0.8	C372J334-60****
0.39	17.8	16.1	8.7	15.0	0.8	C372J394-60****
0.47	17.8	17.0	9.5	15.0	0.8	C372J474-60****
0.56	17.8	17.8	10.3	15.0	0.8	C372J564-60****
0.68	17.8	18.9	11.4	15.0	0.8	C372J684-60****
0.82	17.8	20.9	11.8	15.0	0.8	C372J824-60****
1.0	17.8	22.1	13.6	15.0	0.8	C372J105-60****
0.22	25.5	11.3	5.9	22.5	0.6	C372J224-90****
0.27	25.5	11.8	6.4	22.5	0.6	C372J274-90****
0.33	25.5	12.3	6.9	22.5	0.6	C372J334-90****
0.39	25.5	14.4	6.9	22.5	0.6	C372J394-90****
0.47	25.5	15.0	7.5	22.5	0.8	C372J474-90****

630Vdc						
CN (μ	W max	H max	T max	P	d	Part number
0.56	25.5	16.7	7.6	22.5	0.8	C372J564-90****
0.68	25.5	17.4	8.3	22.5	0.8	C372J684-90****
0.82	25.5	18.2	9.2	22.5	0.8	C372J824-90****
1.0	25.5	19.2	10.6	22.5	0.8	C372J105-90****
1.2	25.5	20.2	11.6	22.5	0.8	C372J125-90****
1.5	25.5	22.5	12.4	22.5	0.8	C372J155-90****
1.8	25.5	23.7	13.6	22.5	0.8	C372J185-90****
2.2	25.5	25.2	15.1	22.5	0.8	C372J225-90****
0.27	30.7	11.2	5.8	27.5	0.6	C372J274-B0****
0.33	30.7	11.7	6.3	27.5	0.6	C372J334-B0****
0.39	30.7	12.1	6.7	27.5	0.6	C372J394-B0****
0.47	30.7	12.7	7.3	27.5	0.6	C372J474-B0****
0.56	30.7	13.8	7.9	27.5	0.8	C372J564-B0****
0.68	30.7	15.5	8.0	27.5	0.8	C372J684-B0****
0.82	30.7	16.2	8.7	27.5	0.8	C372J824-B0****
1.0	30.7	18.0	9.7	27.5	0.8	C372J105-B0****
1.2	30.7	19.9	9.8	27.5	0.8	C372J125-B0****
1.5	30.7	21.1	11.0	27.5	0.8	C372J155-B0****
1.8	30.7	24.2	10.9	27.5	0.8	C372J185-B0****
2.2	30.7	25.5	12.2	27.5	0.8	C372J225-B0****
2.7	30.7	26.9	13.6	27.5	0.8	C372J275-B0****
3.3	30.7	28.5	15.2	27.5	0.8	C372J335-B0****
3.9	30.7	29.9	16.7	27.5	0.8	C372J395-B0****
4.7	30.7	31.7	18.5	27.5	0.8	C372J475-B0****
5.6	30.7	33.6	20.3	27.5	0.8	C372J565-B0****

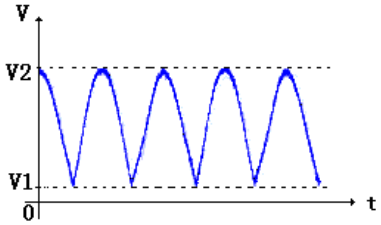
Note: 1. "-" =capacitance tolerance code, M=±20%,K=±10%,J=±5%.
2. "****" =lead form and packing code (refer to table 1).

■ Max Current (Ir.m.s.) versus frequency (Miniature version)



NOTE: 1. sinusoidal wave-form, environment temperature≤ 85℃,internal temperature rise △ T=10℃, p (pitch) in mm.

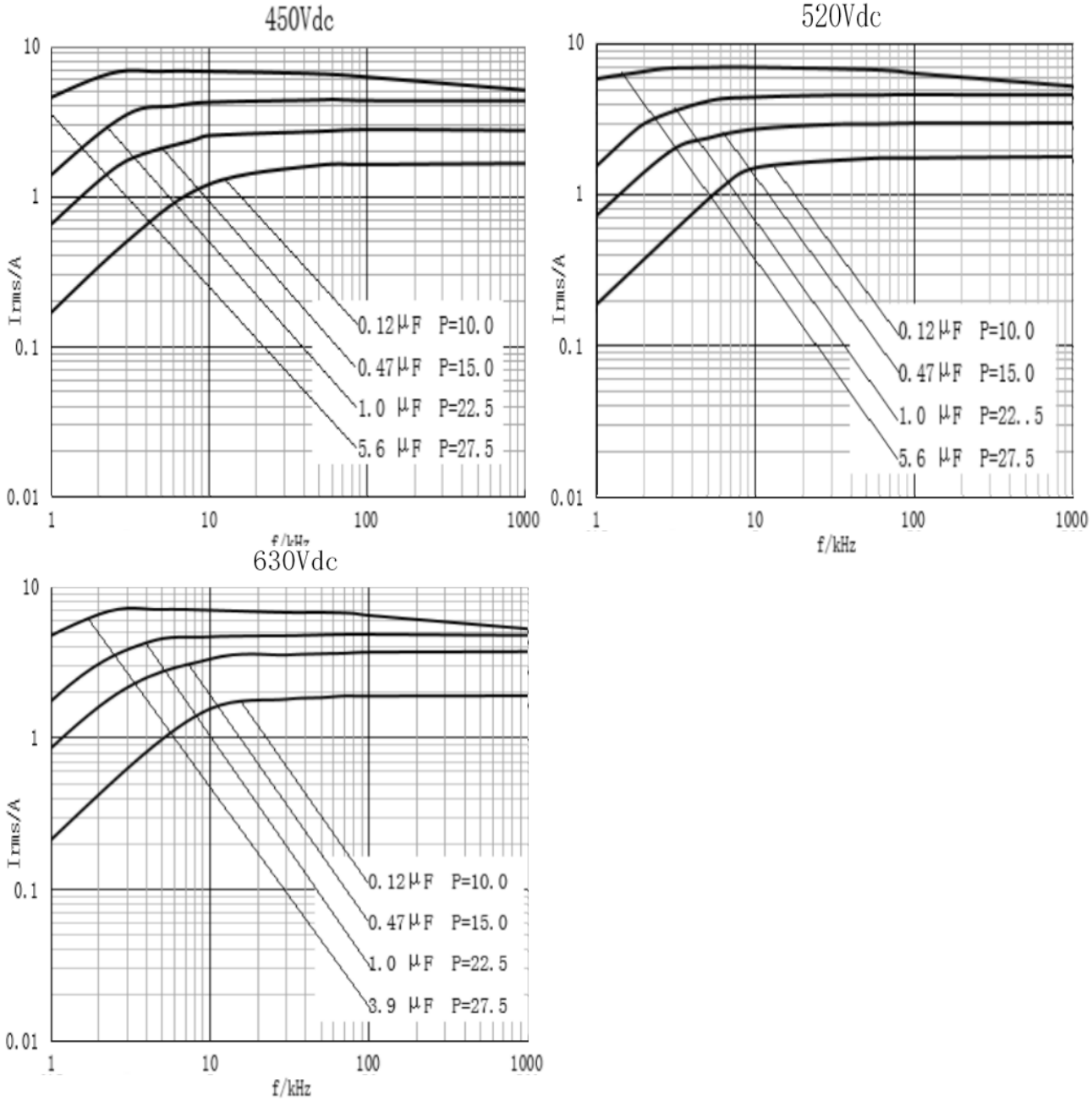
2. The series product is only recommended to use in DC-filter or DC-blocking circuits. It means the voltage applied to the capacitors must be unidirectional ripple voltage. The typical voltage curve is as follows reference. If you have any questions for this note, please feel free to contact with our technical engineer.



Here: $V_1 \geq 0$, $V_2 \leq U_R$, $Irms = \mathbf{2\ \pi\ f \times C \times (V_2 - V_1) / \sqrt{2}}$

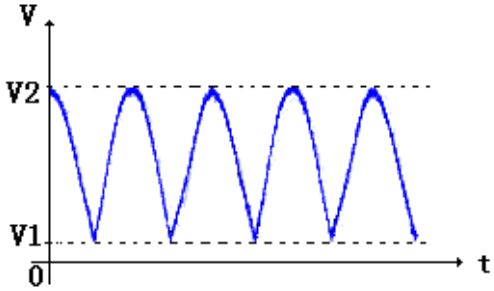
U_R is the rated voltage of the capacitor

■ **Max Current (Ir.m.s.) versus frequency**



NOTE: 1. sinusoidal wave-form、environment temperature≤ 85℃,internal temperature rise △T=10℃, p (pitch) in mm.

2. The series product is only recommended to use in DC-filter or DC-blocking circuits. It means the voltage applied to the capacitors must be unidirectional ripple voltage. The typical voltage curve is as follows reference. If you have any questions for this note, please feel free to contact with our technical engineer.



Here: $V_1 \geq 0$, $V_2 \leq U_R$, $Irms = \mathbf{2\ \pi\ f \times C \times (V_2 - V_1)} / \sqrt{2}$

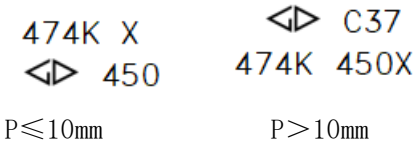
U_R is the rated voltage of the capacitor

■ Test Method And Performance

No.	Item		Performance	Test method(IEC 60384-16)
1	Solderability		Good quality of tinning	Solder temperature: 245℃ ±5℃ Immersion time: 2.0s±0.5s
2	Initial measurement		Capacitance Tanδ: 1kHz, C>1.0μF,10kHz, C≤1.0μF	
	Terminal strength (straight lead)		There shall be no visible damage	Tension: 10N(0.6≤φ d≤0.8) 20N(φ d=1.0) Bend: 5N(0.6≤φ d≤0.8) 10N(φ d=1.0) The terminals shall be bent 2 times in each direction.
	Resistance to solder heat		There shall be no evidence of deterioration.	Solder temperature:260℃±5℃ Immersion time: 10s±1s
	Final measurement		ΔC/C ≤±3%(relative to the initial value) Increase of tanδ: ≤0.004 (10kHz,C≤1.0μ F) ≤0.004 (1kHz, C>1.0μ F)	
3	Initial measurement		Capacitance Tanδ: 1kHz, C>1.0μF,10kHz, C≤1.0μF	
	Rapid change of temperature		There shall be no evidence of deterioration.	θ_A=-40℃, θ_B =+105℃ 5 cycles Duration: t=30min
	Vibration (straight lead) (when capacitor weight > 3g, the capacitor body needs to be fixed)		There shall be no evidence of deterioration.	Amplitude 0.75mm or acceleration 98m/s². (whichever is the smaller severity), f: 10Hz to 500Hz.Three directions, 2h foreach direction, total 6h.
	Bump (straight lead) (when capacitor weight > 3g, the capacitor body needs to be fixed)		There shall be no evidence of deterioration.	4 000times, Acceleration: 390m/s²,Pulse duration, 6ms
	Final measurement		ΔC/C ≤±3%(relative to the initial value) Increase of tanδ: ≤0.004 (10kHz,C≤1.0μ F) ≤0.004 (1kHz, C>1.0μ F) IR: ≥ 50% of the rated value	
4	climate sequence	Initial measurement	Capacitance Tanδ: 1kHz, C>1.0μF 10kHz, C≤1.0μF	
		Dry heat		+105℃, 16h
		Damp heat,Cyclic		Test Db, Severity: b, the first cycle
		Cold		-40℃, 2h
		Low air pressure	There shall be no permanent breakdown, flashover or other harmful deformation when applying U_R at the last 1 minute.	15℃~35℃, 8.5kPa, 1h
		Damp heat, Cyclic other	Applying U_R for 1 minute after 15 minutes the test finished .	Test Db, Severity b, the other cycles,
		Final measurement	There shall be no visible damage, legible marking ΔC/C ≤±5%(relative to the initial value) Increase of tanδ: ≤0.005 (C≤1.0μ F,10kHz) ≤0.005(C>1.0μ F,1kHz) IR: ≥ 50% of the rated value	

No.	Item	Performance	Test method(IEC 60384-16)
5	Damp heat steady state	There shall be no visible damage, legible marking ΔC/C ≤±5%(relative to the initial value) Increase of tanδ:≤0.002 (1kHz) IR: ≥ 50% of the rated value	Temperature:40℃ ±2℃ Humidity: 93^{+2}_{-3} %RH Duration: 56 days
6	Endurance	There shall be no visible damage, legible marking ΔC/C ≤±5%(relative to the initial value) Increase of tanδ: ≤0.004 (10kHz,C≤1.0μ F) ≤0.004 (1kHz, C>1.0μ F) IR: ≥ 50% of the rated value	Temperature: +85℃ Voltage: 1.25×U_R Duration: 1 000h
7	Charging and discharging	ΔC/C ≤±5%(relative to the initial value) Increase of tanδ: ≤0.005 (C≤1.0μ F,10kHz) ≤0.005(C>1.0μ F,1kHz) IR: ≥ 50% of the rated value	Times: 10 000 Duration of charging: 0.5s Duration of discharging: 0.5s Charging voltage: rated voltage U_R Charging resistance: 220/C_N(Ω) Discharging resistance: U_R÷C_N÷dv/dt(Ω) C_N: rated capacitance (μ F) dv/dt value: see P2

■ Marking (For example)



P≤10mm　　P＞10mm

Marking Introduction:

◁▷	Brand	C37	Type
450	Rated voltage	474	Rated capacitance
K	Tolerance	X	Year of manufacture

■ Taping for dipped-type capacitor

▲ Outline Drawing

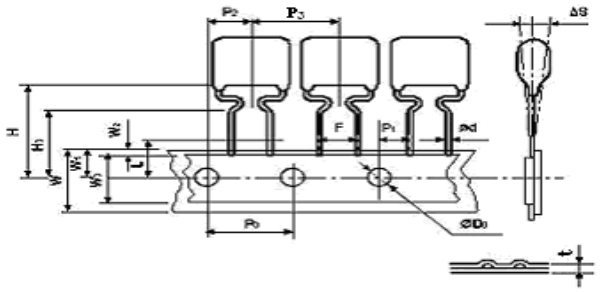


Fig.1

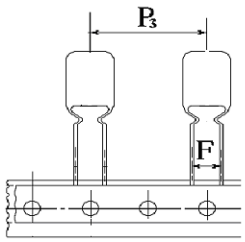


Fig 2

▲ Taping Dimensions(mm)

Technology index title	Code	Dimensions (mm)				
		P=5.0	P=7.5	P=10.0	P=15.0	Tolerance
Taping type	—	Fig 1	Fig 1	Fig 2	Fig 2	——
Part number Digit12-15	Ammo-pack	A21A	A31A	A41E	A61E	
Taping pitch	P_3	12.7	12.7	25.4	25.4	±1.0
Feed hole pitch	P_0	12.7	12.7	12.7	12.7	±0.3
Center of wire	P_1	3.85	2.60	7.7	5.2	±0.7
Center of body	P_2	6.35	6.35	12.7	12.7	±1.3
Pitch of taping wire	F**	5.0	7.5	10.0	15.0	+0.8 -0.2
Component alignment	△ S	0	0	0	0	±2.0
Height of crankle from tape center	H	20.0	20.0	20.0	20.0	±1.0
Height of component from tape center	H_0	16.0	16.0	16.0	16.0	±0.5
Carrier tape width	W	18.0	18.0	18.0	18.0	+1.0 -0.5
Hold down tape width	W_0	10min	10min	10min	10min	——
Hole position	W_1	9.0	9.0	9.0	9.0	+0.75 -0.5
Hold down tape sition	W_2	3max	3max	3max	3max	——
Feed hole dia.	D_0	4.0	4.0	4.0	4.0	±0.3
Tape thickness	t	0.7	0.7	0.7	0.7	±0.2

Note: * P_0=15mm is also available; ** F can be other lead spacing;

■ Soldering suggestions

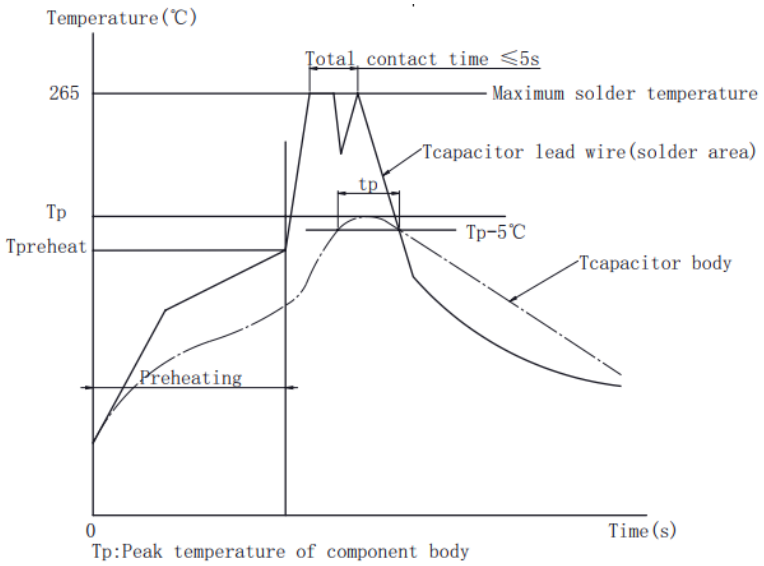
▲ Manual soldering

Max. temperature: 350℃, time: 3s

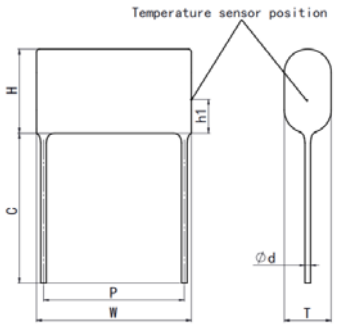
▲ Wave soldering

There are many factors affecting the heating of film capacitor during the wave soldering process, such as: preheating temperature, preheating time, soldering temperature, soldering time, other heat sources influence and so on.

The typical soldering profile is as below:



▲ Because overheating could damage the capacitor, we recommend paying attention to the maximum capacitor temperature and heating time, use temperature sensor to detect the maximum capacitor body temperature.

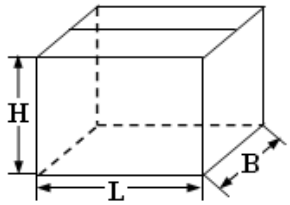


Note: If re-working or dipping twice is necessary, it should be done after the capacitor returns to the normal temperature.

Temperature sensor position (Tcapacitor body)	The capacitor body surface of lead side, capacitor height position from PCB: h1=2～3mm		
Maximum capacitor body temperature Tp(℃)	OPP film P≤ 15mm	OPP film P>15mm	PET film
	115	120	125
Maximum capacitor lead wire temperature (℃)	265	265	265
Maximum capacitor body heating time tp=Tp-5℃	30s		

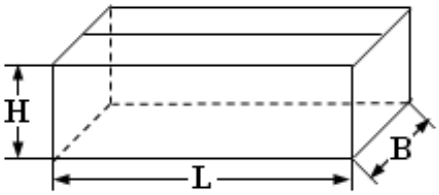
■ Packing box sizes(mm)(example)

1. Out packing box for bulk



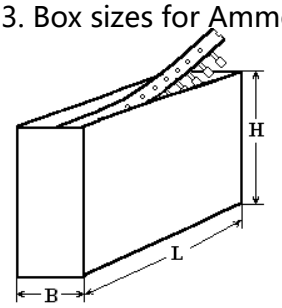
L:375±5
B:375±5
H:265±5

2. Inner packing box for bulk



L:355±3
B:175±3
H:118±3

3. Box sizes for Ammo-pack



L:350±3
B:50±3
H:260±3

■ Storage conditions

▲ It must be noted that the solderability of the terminals may be deteriorated when stored in an atmosphere filled with moisture, dust, or a reactive oxidizing gas.(hydrogen chloride, hydrogen sulfide, sulfuric acid,etc.)

▲ It shouldn’ t be located in particularly high temperature and high humidity, it must submit to the following conditions(unchanging primal package):

Temperature：-40 ℃ to 35 ℃

Humidity：Average per year≤ 70%RH;

For 30 full days randomly distributed throughout the year≤ 80%RH

Storage time for tinned lead wire:（from the date marked on the capacitor’ s body or the label glued to the package）:

Bulk(packed with plastic bag): ≤ 24 months ;

Taping and line up: ≤ 12 months