

RR series

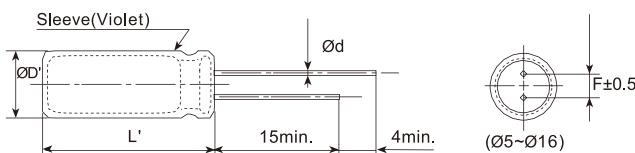
- High frequency, low impedance, high reliability
- Endurance: +105°C 2,000 hours
- Suitable for switching power, UPS, power sources, etc.
- RoHS Compliant



SPECIFICATIONS

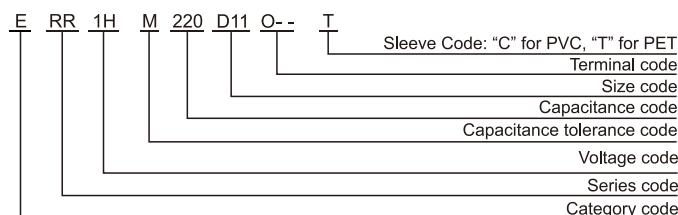
Items	Characteristics						
Category Temperature Range	-40~+105°C						
Rated Voltage Range	6.3~50 V _{dc}						
Capacitance Tolerance	$\pm 20\%$ (M) (at 20°C, 120Hz)						
Leakage Current	I≤0.01CV or 3μA, whichever is greater. Where, I:Max.leakage current (μA),C:Nominal capacitance (μF),V: Rated voltage (V)	6.3	10	16	25	35	
Dissipation Factor (tanδ)	tanδ (max.)	0.22	0.18	0.14	0.12	0.10	
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)						
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	6.3	10	16	25	35	
	Z(-25°C)/Z(+20°C)	2				(at 120Hz)	
Endurance	The specifications listed below shall be met when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for 2,000 hours at 105 °C.						
	Capacitance Change	$\leq \pm 20\%$ of the initial value (6.3,10V: $\leq \pm 30\%$)					
	D.F. (tanδ)	$\leq 200\%$ of the initial specified value					
	Leakage Current	\leq The initial specified value					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after leaving them under no load at 105°C for 1,000 hours.						
	Capacitance Change	$\leq \pm 20\%$ of the initial value (6.3,10V: $\leq \pm 30\%$)					
	D.F. (tanδ)	$\leq 200\%$ of the initial specified value					
	Leakage Current	$\leq 200\%$ of the initial specified value					

DIMENSIONS[mm]



ØD	5	6.3	8	10	12.5	16
Ød	0.45	0.5	0.5	0.6	0.6	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5
ØD'	$\text{ØD}+0.5\text{max.}$					
L'	$L+2\text{max.}$					

PART NUMBERING SYSTEM



Radial Type

RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq.(Hz) Cap.(μF)	120	1k	10k	100k
Cap.<220	0.40	0.75	0.90	1.00
220≤Cap.<680	0.50	0.85	0.94	1.00
680≤Cap.<2200	0.60	0.87	0.95	1.00
2200≤Cap.<4700	0.75	0.90	0.95	1.00
Cap.≥4700	0.85	0.95	0.98	1.00

RR series

■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω _{max/20°C,} 100kHz)	Rated ripple current (mArms/105°C, 100kHz)
6.3(0J)	150	5*11	0.22	0.3	250
		6.3*7	0.22	0.3	250
	330	6.3*9	0.22	0.15	350
		6.3*11	0.22	0.13	405
	560	8*9	0.22	0.12	605
		8*12	0.22	0.072	760
	820	8*16	0.22	0.056	995
		10*9	0.22	0.085	800
	1000	10*12.5	0.22	0.053	1030
		8*20	0.22	0.041	1250
	1200	10*16	0.22	0.038	1430
		10*20	0.22	0.023	1820
	2200	10*25	0.24	0.022	2150
		12.5*20	0.26	0.021	2360
	3300	12.5*25	0.26	0.018	2770
		12.5*30	0.28	0.016	3290
	4700	12.5*35	0.30	0.015	3400
		16*20	0.30	0.018	3140
	5600	16*25	0.32	0.016	3460
10(1A)	100	5*7	0.18	1.38	185
		5*11	0.18	0.3	250
	220	6.3*7	0.18	0.35	405
		6.3*11	0.18	0.13	405
	470	8*9	0.18	0.18	606
		8*11	0.18	0.072	760
		8*16	0.18	0.056	995
	680	10*9	0.18	0.085	760
		10*12.5	0.18	0.053	1030
	1000	8*20	0.18	0.041	1250
		10*16	0.18	0.038	1430
	1200	10*20	0.18	0.023	1820
	1500	10*25	0.18	0.022	2150
	2200	12.5*20	0.20	0.021	2360
	3300	12.5*25	0.22	0.018	2770
	3900	12.5*30	0.22	0.016	3290
		16*20	0.22	0.018	3140
	4700	12.5*35	0.24	0.015	3400
	5600	16*25	0.26	0.016	3460
16(1C)	56	5*7	0.14	0.7	180
		5*11	0.14	0.3	250
	120	6.3*7	0.14	0.4	300
		6.3*11	0.14	0.13	405
	330	8*7	0.14	0.14	510
		8*12	0.14	0.072	760
	470	8*16	0.14	0.056	795
		10*12.5	0.14	0.053	1030
	680	8*20	0.14	0.041	1250
		10*16	0.14	0.038	1430
	1000	10*20	0.14	0.023	1820
	1200	10*25	0.14	0.022	2150
	1500	12.5*20	0.14	0.021	2360
	2200	12.5*25	0.16	0.018	2770
	2700	12.5*30	0.16	0.016	3290
	3300	12.5*35	0.18	0.015	3400
	3900	16*25	0.18	0.016	3460

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω _{max/20°C,} 100kHz)	Rated ripple current (mArms/105°C, 100kHz)
25(1E)	47	5*11	0.12	0.3	250
		6.3*7	0.12	1.1	200
	100	6.3*11	0.12	0.13	405
		8*7	0.12	0.3	430
	220	8*9	0.12	0.1	600
		8*12	0.12	0.072	760
	330	8*16	0.12	0.056	995
	470	8*20	0.12	0.041	1250
	680	10*12.5	0.12	0.053	1030
	820	10*16	0.12	0.038	1430
	1000	10*20	0.12	0.023	1820
	1500	10*25	0.12	0.022	2150
		12.5*20	0.12	0.021	2360
	1800	12.5*30	0.12	0.016	3290
		16*20	0.12	0.018	3140
	2200	12.5*25	0.14	0.018	2770
	2700	12.5*35	0.14	0.015	3400
		16*25	0.14	0.016	3460
35(1V)	33	5*7	0.10	1.15	160
		5*11	0.10	0.3	250
	56	6.3*11	0.10	0.13	405
		8*7	0.10	0.39	405
	150	8*9	0.10	0.17	600
		8*12	0.10	0.072	760
	220	8*16	0.10	0.056	995
		10*12.5	0.10	0.053	1030
	270	8*20	0.10	0.041	1250
	330	10*16	0.10	0.038	1430
	470	10*20	0.10	0.023	1820
	560	10*25	0.10	0.022	2150
	680	12.5*20	0.10	0.021	2360
	1000	12.5*25	0.10	0.018	2770
		12.5*30	0.10	0.016	3290
	1200	16*20	0.10	0.018	3140
	1500	12.5*35	0.10	0.015	3400
	1800	16*25	0.10	0.016	3460
50(1H)	22	5*11	0.08	0.34	238
		6.3*7	0.08	0.52	200
	56	6.3*12	0.08	0.14	385
		8*7	0.08	0.36	320
	100	8*9	0.08	0.2	580
		8*12	0.08	0.074	724
	120	8*16	0.08	0.061	950
	150	10*12.5	0.08	0.061	979
	180	8*20	0.08	0.046	1190
	220	10*16	0.08	0.042	1370
	270	10*20	0.08	0.03	1580
	330	10*25	0.08	0.028	1870
	470	12.5*20	0.08	0.027	2050
	560	12.5*25	0.08	0.023	2410
	680	12.5*30	0.08	0.021	2860
	820	12.5*35	0.08	0.019	2960
	1000	16*20	0.08	0.023	2730
		16*25	0.08	0.021	3010