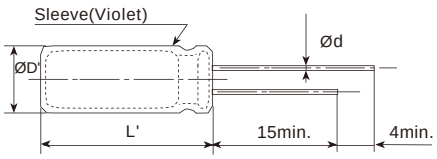
RR series

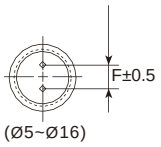
- High frequency,low impedance,high reliability
- Endurance: +105°C 2,000 hours
- Suitable for switching power, UPS, power sources,etc.
- **RoHS Compliant**

SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-40~+105°C							
Rated Voltage Range	6.3~50 Vdc							
Capacitance Tolerance	±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)							(at 20°C after 2 minutes)
Dissipation Factor (tanδ)	Rated Voltage(Vdc)	6.3	10	16	25	35	50	
	tanδ (max.)	0.22	0.18	0.14	0.12	0.10	0.08	
	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(Vdc)	6.3	10	16	25	35	50	
	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	≤±20% of the initial value (6.3,10V:≤±30%)						
	D.F. (tanδ)	≤200% of the initial specified value						
	Leakage Current	≤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	≤±20% of the initial value (6.3,10V:≤±30%)						
	D.F. (tanδ)	≤200% of the initial specified value						
	Leakage Current	≤200% of the initial specified value						

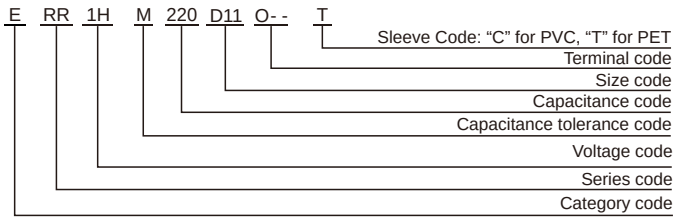
DIMENSIONS[mm]





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

PART NUMBERING SYSTEM



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 (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ωmax/20°C, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	Part Number
6.3(0J)	150	5×11	0.22	0.3	250	ERR0JM151D11OT
		6.3×7	0.22	0.3	250	ERR0JM151E07OT
	330	6.3×9	0.22	0.15	350	ERR0JM331E09OT
		6.3×11	0.22	0.13	405	ERR0JM331E11OT
	560	8×9	0.22	0.12	605	ERR0JM561F09OT
		8×12	0.22	0.072	760	ERR0JM561F12OT
	820	8×16	0.22	0.056	995	ERR0JM821F16OT
		10×9	0.22	0.085	800	ERR0JM821G09OT
	1000	10×12.5	0.22	0.053	1030	ERR0JM102G1BOT
	1200	8×20	0.22	0.041	1250	ERR0JM122F20OT
		10×16	0.22	0.038	1430	ERR0JM122G16OT
	1500	10×20	0.22	0.023	1820	ERR0JM152G20OT
	2200	10×25	0.24	0.022	2150	ERR0JM222G25OT
	3300	12.5×20	0.26	0.021	2360	ERR0JM332W20OT
	3900	12.5×25	0.26	0.018	2770	ERR0JM392W25OT
	4700	12.5×30	0.28	0.016	3290	ERR0JM472W30OT
	5600	12.5×35	0.30	0.015	3400	ERR0JM562W35OT
		16×20	0.30	0.018	3140	ERR0JM562L20OT
	6800	16×25	0.32	0.016	3460	ERR0JM682L25OT
10(1A)	100	5×7	0.18	1.38	185	ERR1AM101D07OT
		5×11	0.18	0.3	250	ERR1AM101D11OT
	220	6.3×7	0.18	0.35	405	ERR1AM221E07OT
		6.3×11	0.18	0.13	405	ERR1AM221E11OT
	470	8×9	0.18	0.18	606	ERR1AM471F09OT
		8×11	0.18	0.072	760	ERR1AM471F11OT
	680	8×16	0.18	0.056	995	ERR1AM681F16OT
		10×9	0.18	0.085	760	ERR1AM681G09OT
		10×12.5	0.18	0.053	1030	ERR1AM681G1BOT
	1000	8×20	0.18	0.041	1250	ERR1AM102F20OT
		10×16	0.18	0.038	1430	ERR1AM102G16OT
	1200	10×20	0.18	0.023	1820	ERR1AM122G20OT
	1500	10×25	0.18	0.022	2150	ERR1AM152G25OT
	2200	12.5×20	0.20	0.021	2360	ERR1AM222W20OT
	3300	12.5×25	0.22	0.018	2770	ERR1AM332W25OT
	3900	12.5×30	0.22	0.016	3290	ERR1AM392W30OT
		16×20	0.22	0.018	3140	ERR1AM392L20OT
	4700	12.5×35	0.24	0.015	3400	ERR1AM472W35OT
	5600	16×25	0.26	0.016	3460	ERR1AM562L25OT
16(1C)	56	5×7	0.14	0.7	180	ERR1CM560D07OT
		5×11	0.14	0.3	250	ERR1CM560D11OT
	120	6.3×7	0.14	0.4	300	ERR1CM121E07OT
		6.3×11	0.14	0.13	405	ERR1CM121E11OT
	330	8×7	0.14	0.14	510	ERR1CM331F07OT
		8×12	0.14	0.072	760	ERR1CM331F12OT
	470	8×16	0.14	0.056	795	ERR1CM471F16OT
		10×12.5	0.14	0.053	1030	ERR1CM471G1BOT
	680	8×20	0.14	0.041	1250	ERR1CM681F20OT
		10×16	0.14	0.038	1430	ERR1CM681G16OT
	1000	10×20	0.14	0.023	1820	ERR1CM102G20OT
	1200	10×25	0.14	0.022	2150	ERR1CM122G25OT
	1500	12.5×20	0.14	0.021	2360	ERR1CM152W20OT
	2200	12.5×25	0.16	0.018	2770	ERR1CM222W25OT
	2700	12.5×30	0.16	0.016	3290	ERR1CM272W30OT
		16×20	0.16	0.018	3140	ERR1CM272L20OT
	3300	12.5×35	0.18	0.015	3400	ERR1CM332W35OT
	3900	16×25	0.18	0.016	3460	ERR1CM392L25OT

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ωmax/20°C, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	Part Number
25(1E)	47	5×11	0.12	0.3	250	ERR1EM470D11OT
		6.3×7	0.12	1.1	200	ERR1EM470E07OT
	100	6.3×11	0.12	0.13	405	ERR1EM101E11OT
		8×7	0.12	0.3	430	ERR1EM101F07OT
	220	8×9	0.12	0.1	600	ERR1EM221F09OT
		8×12	0.12	0.072	760	ERR1EM221F12OT
	330	8×16	0.12	0.056	995	ERR1EM331F16OT
	470	8×20	0.12	0.041	1250	ERR1EM471F20OT
	680	10×12.5	0.12	0.053	1030	ERR1EM681G1BOT
	820	10×16	0.12	0.038	1430	ERR1EM821G16OT
	1000	10×20	0.12	0.023	1820	ERR1EM102G20OT
	1500	10×25	0.12	0.022	2150	ERR1EM152G25OT
	1800	12.5×20	0.12	0.021	2360	ERR1EM182W20OT
		12.5×30	0.12	0.016	3290	ERR1EM182W30OT
		16×20	0.12	0.018	3140	ERR1EM182L20OT
	2200	12.5×25	0.14	0.018	2770	ERR1EM222W25OT
		12.5×35	0.14	0.015	3400	ERR1EM222W35OT
	2700	16×25	0.14	0.016	3460	ERR1EM272L25OT
35(1V)	33	5×7	0.10	1.15	160	ERR1VM330D07OT
		5×11	0.10	0.3	250	ERR1VM330D11OT
	56	6.3×11	0.10	0.13	405	ERR1VM560E11OT
		8×7	0.10	0.39	405	ERR1VM560F07OT
	150	8×9	0.10	0.17	600	ERR1VM151F09OT
		8×12	0.10	0.072	760	ERR1VM151F12OT
	220	8×16	0.10	0.056	995	ERR1VM221F16OT
		10×12.5	0.10	0.053	1030	ERR1VM221G1BOT
	270	8×20	0.10	0.041	1250	ERR1VM271F20OT
	330	10×16	0.10	0.038	1430	ERR1VM331G16OT
	470	10×20	0.10	0.023	1820	ERR1VM471G20OT
	560	10×25	0.10	0.022	2150	ERR1VM561G25OT
	680	12.5×20	0.10	0.021	2360	ERR1VM681W20OT
	1000	12.5×25	0.10	0.018	2770	ERR1VM102W25OT
	1200	12.5×30	0.10	0.016	3290	ERR1VM122W30OT
		16×20	0.10	0.018	3140	ERR1VM122L20OT
	1500	12.5×35	0.10	0.015	3400	ERR1VM152W35OT
	1800	16×25	0.10	0.016	3460	ERR1VM182L25OT
50(1H)	22	5×11	0.08	0.34	238	ERR1HM220D11OT
		6.3×7	0.08	0.52	200	ERR1HM220E07OT
	56	6.3×12	0.08	0.14	385	ERR1HM560E12OT
		8×7	0.08	0.36	320	ERR1HM560F07OT
	100	8×9	0.08	0.2	580	ERR1HM101F09OT
		8×12	0.08	0.074	724	ERR1HM101F12OT
	120	8×16	0.08	0.061	950	ERR1HM121F16OT
	150	10×12.5	0.08	0.061	979	ERR1HM151G1BOT
	180	8×20	0.08	0.046	1190	ERR1HM181F20OT
	220	10×16	0.08	0.042	1370	ERR1HM221G16OT
	270	10×20	0.08	0.03	1580	ERR1HM271G20OT
	330	10×25	0.08	0.028	1870	ERR1HM331G25OT
	470	12.5×20	0.08	0.027	2050	ERR1HM471W20OT
	560	12.5×25	0.08	0.023	2410	ERR1HM561W25OT
	680	12.5×30	0.08	0.021	2860	ERR1HM681W30OT
	820	12.5×35	0.08	0.019	2960	ERR1HM821W35OT
		16×20	0.08	0.023	2730	ERR1HM821L20OT
	1000	16×25	0.08	0.021	3010	ERR1HM102L25OT

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