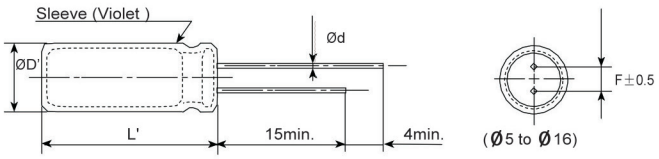
RR Series

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

◆ SPECIFICATIONS

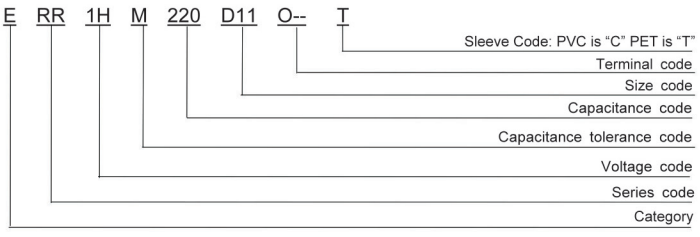
Items	Characteristics							
Category Temperature Range	−40 to +105℃							
Rated Voltage Range	6.3 to 50V_{dc}							
Capacitance Tolerance	±20%(M)							(at 20℃, 120Hz)
Leakage Current	I≦0.01CVor 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)							(at 20℃ after 1 minute)
Dissipation Factor (tanδ)	Rated voltage (V_{dc})	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℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V_{dc})	6.3	10	16	25	35	50	
	Z(−25℃)/Z(+20℃)	2						(at, 120Hz)
	Z(−40℃)/Z(+20℃)	3						
Endurance	The following specification shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 2000hours at 105℃.							
	Capacitance change	≤±20% of the initial value(6.3V,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℃ after exposing them for 1000 hours at 105℃ without voltage applied.							
	Capacitance change	≤±20% of the initial value(6.3V,10V: ≤±30%)						
	D.F. (tanδ)	≤200% of the initial specified value						
	Leakage current	≤200%The initial specified value						

◆ DIMENSIONS [mm]



ØD	5	6.3	8		10	12.5	16
Ød	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 NUMBER SYSTEM



※Sleeve Code and Terminal Code should follow the part number 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

The endurance of capacitors is shorted with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

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