

RR Series

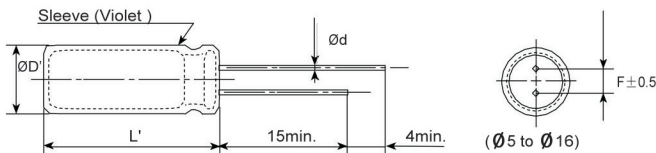
- High frequency, low impedance, high reliability
- Lifetime +105°C2,000 hours
- Suitable for switching power, UPS, power sources etc.
- RoHS Compliant



◆ SPECIFICATIONS

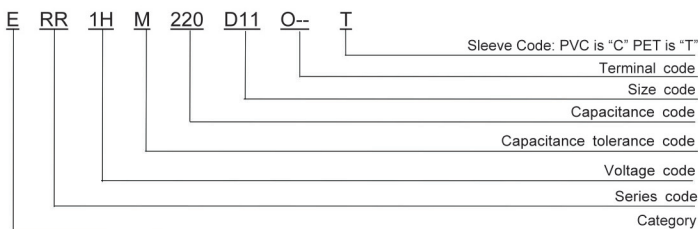
Items	Characteristics							
Category	-40 to +105°C							
Temperature Range	-40 to +105°C							
Rated Voltage Range	6.3 to 50V _{dc}							
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)							
Leakage Current	I ≤ 0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 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°C, 120Hz)								
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	6.3	10	16	25	35	50	
	Z(-25°C)/Z(+20°C)						2	(at, 120Hz)
	Z(-40°C)/Z(+20°C)						3	
Endurance	The following specification shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2000hours at 105°C.							
	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°C after exposing them for 1000 hours at 105°C 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	0.8
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

Cap(μF) \ Freq.(Hz)	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°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.