

## RR series

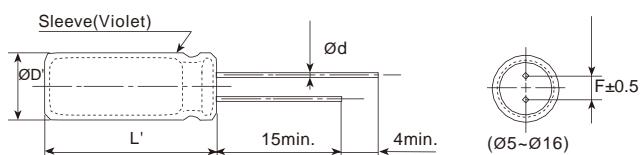
- High frequency, low impedance, high reliability
- Endurance: +105°C 2,000 hours
- Suitable for switching power, UPS, power sources, etc.
- RoHS Compliant



### SPECIFICATIONS

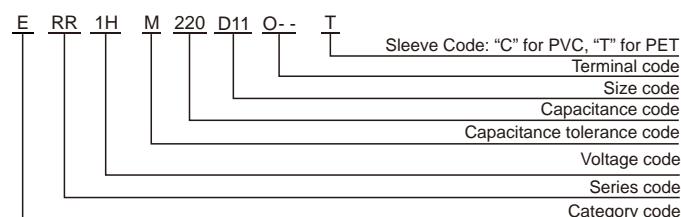
Items	Characteristics					
Category Temperature Range	-40~+105°C					
Rated Voltage Range	6.3~50 V <sub>dc</sub>					
Capacitance Tolerance	$\pm 20\% (M)$ (at 20°C, 120Hz)					
Leakage Current	I < 0.01CV or 3μA, whichever is greater. Where, I:Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)					
Dissipation Factor (tan $\delta$ )	Rated Voltage(V <sub>dc</sub> )	6.3	10	16	25	35
	tan $\delta$ (max.)	0.22	0.18	0.14	0.12	0.10
		50				
	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 <sub>dc</sub> )	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	$\pm 20\%$ of the initial value (6.3,10V: $\pm 30\%$ )				
	D.F. (tan $\delta$ )	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	$\pm 20\%$ of the initial value (6.3,10V: $\pm 30\%$ )				
	D.F. (tan $\delta$ )	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	0.6	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



### 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

