

## RG series

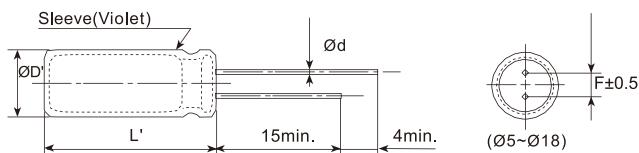
- "GBL" system, high reliability
- Low impedance and high ripple current
- Endurance +105°C 2,000 ~ 8,000 hours
- RoHS Compliant



### SPECIFICATIONS

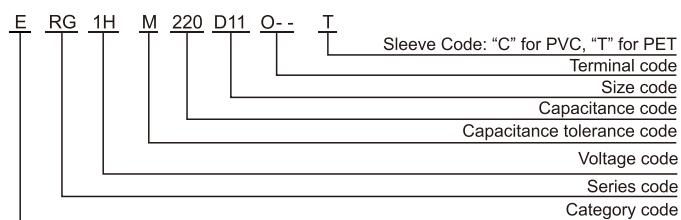
Items	Characteristics									
Category Temperature Range	-55~+105°C									
Rated Voltage Range	6.3~63 V <sub>dc</sub>									
Capacitance Tolerance	$\pm 20\% (M)$									
Leakage Current	I	0.01CV or 3μA, whichever is greater. Where, I:Max.leakage current (μA),C:Nominal capacitance (μF),V: Rated voltage (V)						(at 20°C after 2 minutes)		
Dissipation Factor (tanδ)	Rated Voltage(V <sub>dc</sub> )	6.3	10	16	25	35	50	63		
	tanδ (max.)	0.22	0.19	0.16	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.									
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V <sub>dc</sub> )	6.3	10	16	25	35	50	63		
	Z(-25°C)/Z(+20°C)	4	3			2				
	Z(-55°C)/Z(+20°C)	8	6	4		3		(at 120Hz)		
Endurance	The following specifications shall be met when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for a specified period of time at 105°C, the peak voltage shall not exceed the rated voltage.									
	Capacitance Change	$\leq \pm 25\%$ of the initial value						Dia.		
	D.F. (tanδ)	$\leq 200\%$ of the initial specified value						$\varnothing D$ 6.3		
	Leakage Current	$\leq$ The initial specified value						$\varnothing D$ 8		
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.								$\varnothing D$ 10	
	Capacitance Change	$\leq \pm 25\%$ of the initial value						$\varnothing D$ 12.5		
	D.F. (tanδ)	$\leq 200\%$ of the initial specified value						$\varnothing D$ 16		
	Leakage Current	$\leq 200\%$ of the initial specified value						Load life (hours)		

### DIMENSIONS[mm]



ØD	5	6.3	8	10	12.5	16	18
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	7.5
ØD'	$\varnothing D + 0.5\text{max.}$						
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

The endurance of capacitors is shortened 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.



