

RE Series

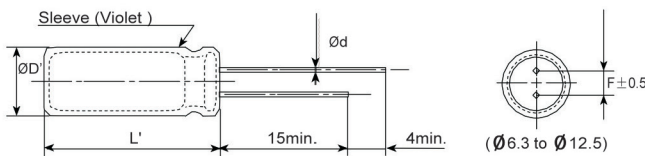
- Low impedance for high frequency.
- Lifetime +105°C 2,000 to 4000 hours
- Suitable for switching power, UPS, power sources etc.
- RoHS Compliant



◆ SPECIFICATIONS

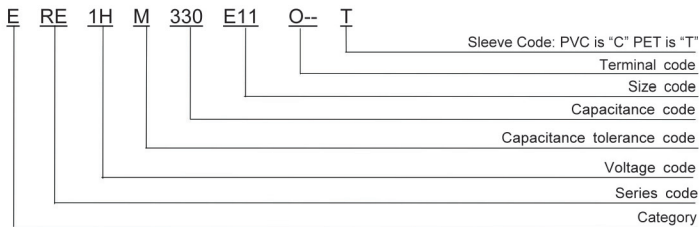
Items	Characteristics										
Category	-40 to +105°C (6.3 to 100V _{dc})										
Temperature Range											
Rated Voltage Range	6.3 to 100V _{dc}										
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)										
Leakage Current	$I \leq 0.01CV$ or $3\mu A$, whichever is greater Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C, after 2minutes)										
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	6.3	10	16	25	35	50	63	100		
	tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08		
When nominal capacitance exceeds 1,000 μF , add 0.02 to the value above for each 1,000 μF increase (at 20°C, 120Hz)											
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	6.3	10	16	25	35	50	63	100		
	Z(-25°C)/Z(+20°C)	4	3	2							
	Z(-40°C)/Z(+20°C)	8	6	4	3						
(at 120Hz)											
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 the specified period of time at 105°C										
	Capacitance change	$\leq \pm 25\%$ of the initial value								Case Dia	Life time (hours)
	D.F. (tan δ)	$\leq 200\%$ of the initial specified value								6.3~100WV	
	Leakage current	\leq The initial specified value								$\varnothing D=6.3$	2000
										$\varnothing D=8\&10$	3000
									$\varnothing D \geq 12.5$	4000	
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	$\leq \pm 25\%$ of the initial value									
	D.F. (tan δ)	$\leq 200\%$ of the initial specified value									
	Leakage current	$\leq 200\%$ The initial specified value									

◆ DIMENSIONS [mm]



∅D	6.3	8	10	12.5
∅d	0.5	0.5	0.6	0.6
F	2.5	3.5	5.0	5.0
∅D'	$\varnothing D + 0.5 \text{ max.}$			
L'	$L + 2 \text{ max.}$			

◆ 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.

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