

HS Series

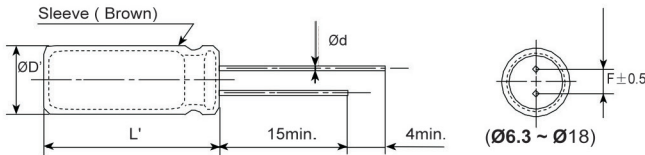
- High ripple current, For Power Supply
- Endurance: 105°C 3,000~5000hours
- RoHS Compliant



◆ SPECIFICATIONS

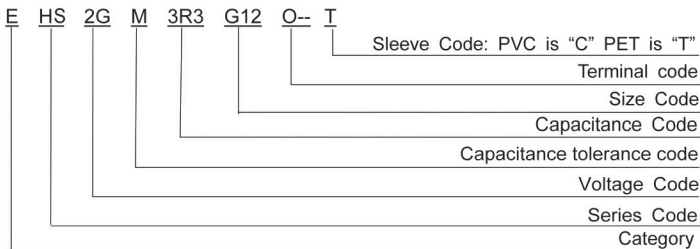
Items	Characteristics													
Category	-25 to +105°C													
Temperature Range	-25 to +105°C													
Rated Voltage Range	160 to 450V _{dc}													
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)													
Leakage Current		After 1 minutes		After 5 minutes			Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C)							
	CV ≤ 1000	I ≤ 0.1CV+40 μA		I ≤ 0.03CV+15 μA										
	CV > 1000	I ≤ 0.04CV+100 μA		I ≤ 0.02CV+25 μA										
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	160	200	250	350	400	450	(at 20°C, 120Hz)						
	tanδ (Max.)	0.15	0.15	0.15	0.20	0.20	0.20							
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	160	200	250	350	400	450	(at 120Hz)						
	Z(-25°C)/Z(+20°C)	3	3	3	6	6	6							
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	≤ ±20% of the initial value					<table border="1"> <tr> <th>Case Dia</th> <th>Life time (hours)</th> </tr> <tr> <td>∅D ≤ 8</td> <td>3000</td> </tr> <tr> <td>∅D ≥ 10</td> <td>5000</td> </tr> </table>		Case Dia	Life time (hours)	∅D ≤ 8	3000	∅D ≥ 10	5000
	Case Dia	Life time (hours)												
	∅D ≤ 8	3000												
∅D ≥ 10	5000													
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 1,000 hours at 105°C without voltage applied.													
	Capacitance change	≤ ±20% of the initial value												
	D.F. (tanδ)	≤ 200% of the initial specified value												
	Leakage current	≤ 200% of the initial specified value												

◆ DIMENSIONS [mm]



∅D	6.3	8	10	12.5	16	18
∅d	0.5	0.5	0.6	0.6	0.6	0.8
F	2.5	3.5	5.0	5.0	7.5	7.5
∅D'	∅D+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)	120	1K	10K	100K
Cap(μF)				
<100	1.0	1.75	2.25	2.50
≥100	1.0	1.67	2.05	2.25

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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