

HS Series

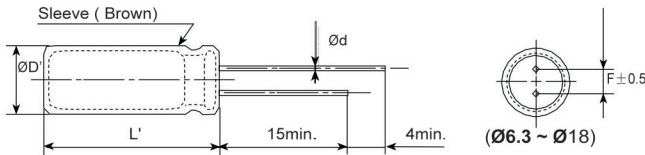
- High ripple current, For Power Supply
- Endurance: 105°C 3,000~5000hours
- RoHS Compliant



◆ SPECIFICATIONS

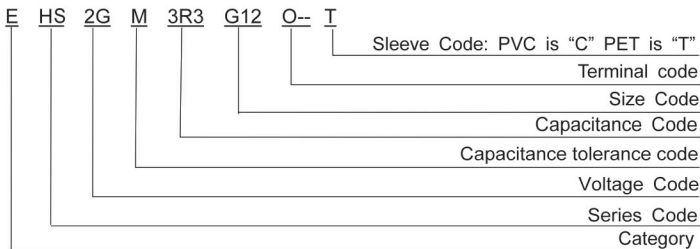
Items	Characteristics							
Category	-25 to +105°C							
Temperature Range	-25 to +105°C							
Rated Voltage Range	160 to 450V _{dc}							
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)							
Leakage Current		After 1 minutes		After 5 minutes			Where, I : Max. leakage current (μA), C : Nominal capacitance (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					Case Dia	Life time (hours)
	D.F. (tanδ)	≤ 200% of the initial specified value					∅D ≤ 8	3000
	Leakage current	≤ The initial specified value					∅D ≥ 10	5000
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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