

HF Series

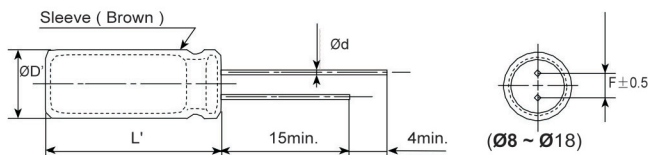
- 105°C Long Life, High ripple current, For Power Supply
- Endurance: 105°C 5000~8000hours
- RoHS Compliant



SPECIFICATIONS

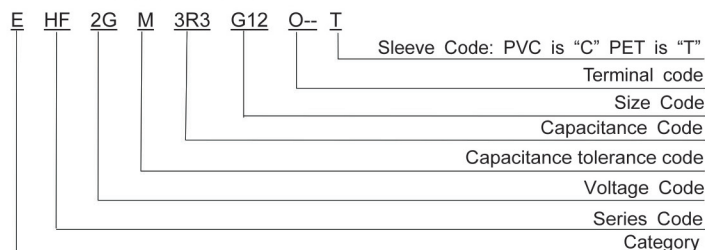
Items	Characteristics																	
Category	Temperature Range																	
Temperature Range	-25 to +105℃																	
Rated Voltage Range	160 to 450V _{dc}																	
Capacitance Tolerance	± 20%(M) (at 20℃, 120Hz)																	
Leakage Current								Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃)										
			After 1 minutes		After 5 minutes													
	CV ≦ 1000		I ≦ 0.1CV+40 μ A		I ≦ 0.03CV+15 μ A													
	CV >1000		I ≦ 0.04CV+100 μ A		I ≦ 0.02CV+25 μ A													
Dissipation Factor (tanδ)	Rated voltage (V _{dc})		160	200	250	350	400	450	(at 20℃, 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℃)/Z(+20℃)		3	3	3	6	6	6										
Endurance	The following specification shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105℃.																	
	Capacitance change		≤ ± 20% of the initial value					<table><tr><td>Case Dia</td><td>Life time (hours)</td></tr><tr><td>φ D ≧ 8</td><td>5000</td></tr><tr><td>φ D = 10</td><td>8000</td></tr><tr><td>φ D ≧ 12.5</td><td>10000</td></tr></table>			Case Dia	Life time (hours)	φ D ≧ 8	5000	φ D = 10	8000	φ D ≧ 12.5	10000
	Case Dia	Life time (hours)																
	φ D ≧ 8	5000																
	φ D = 10	8000																
φ D ≧ 12.5	10000																	
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℃ after exposing them for 1,000 hours at 105℃ 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]



ØD	8	10	12.5	16	18
Ød	0.5	0.6	0.6	0.8	0.8
F	3.5	5.0	5.0	7.5	7.5
ØD'	ØD+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)				
Cap. < 100	1.0	1.75	2.25	2.50
Cap. ≥ 100	1.0	1.67	2.05	2.25

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.

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