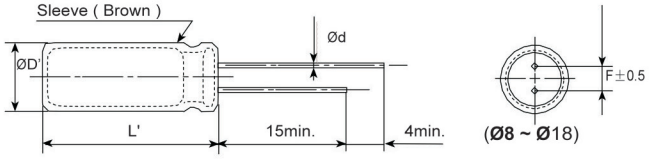
HF Series

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

◆ SPECIFICATIONS

Items	Characteristics
Category Temperature Range	–25 to +105℃
Rated Voltage Range	160 to 450V_{dc}
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)
Leakage Current	After 1 minutes: CV≦1000 → I≦0.1CV+40μA; CV>1000 → I≦0.04CV+100μA After 5 minutes: CV≦1000 → I≦0.03CV+15μA; CV>1000 → I≦0.02CV+25μA Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃)
Dissipation Factor (tanδ)	Rated voltage (V_{dc}): 160 / 200 / 250 / 350 / 400 / 450 tanδ (Max.): 0.15 / 0.15 / 0.15 / 0.20 / 0.20 / 0.20 (at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V_{dc}): 160 / 200 / 250 / 350 / 400 / 450 Z(–25℃)/Z(+20℃): 3 / 3 / 3 / 6 / 6 / 6 (at 120Hz)
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 D.F. (tanδ): ≤200% of the initial specified value Leakage current: ≤The initial specified value Case Dia ØD≦8: 5000 hours; ØD=10: 8000 hours; ØD≧12.5: 10000 hours
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	0.6	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

E HF 2G M 3R3 G12 O-- T

- T — Sleeve Code: PVC is "C" PET is "T"
- O-- — Terminal code
- G12 — Size Code
- 3R3 — Capacitance Code
- M — Capacitance tolerance code
- 2G — Voltage Code
- HF — Series Code
- E — Category

※Sleeve code and Terminal Code should follow the part number system

◆ RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq.(Hz) / Cap(μF)	120	1K	10K	100K
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 shorted with internal heating produced by ripple current at the rate of halving the lifetime with every 5℃ rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

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