

Metallized film capacitor

FPT SERIES

Please request specifications for consideration.
If you send the email to "Contact us", we will send it.

**High Temperature (+125°C)
(630VDC)**

Metallized PP film capacitor

★ **Performance**

| Item | Performance |
|---------------------------------|-----------------------------------------------------------------------------------------------|
| Temperature range | -40~+105°C (+125°C) (+105°C~+125°C Voltage derating) (+120°C~+125°C Current derating) |
| Rated Voltage (U _R) | 630VDC |
| Capacitance range | 0.01 ~0.047 μF |
| Capacitance tolerance | ±10% (K) |
| Insulation resistance (IR) | C ≤ 0.33μF : ≥25000 MΩ C > 0.33μF : ≥7500 Ω · F (500 VDC for 1min) |
| tanδ | ≤0.001 (1kHz) |



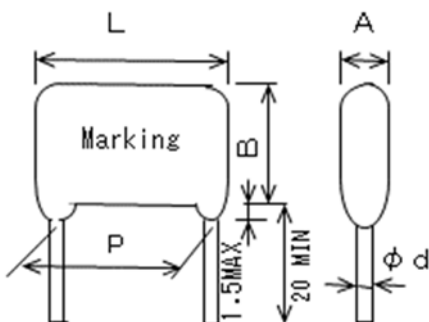
★ **Standard dimensions table (FPT)**

| Parts cord | Rated voltage (V _{DC}) | Capacitance (μF) | Cap. tolerance (%) | Dimensions (mm) | | | | | | Permissible Current (Peak) I _{op} (A) | Taping PCS/Package | | |
|--------------|----------------------------------|------------------|--------------------|--------------------------------------------|-------|-------|-------|---------|-----|------------------------------------------------|--------------------|--|--|
| | | | | A max | B max | H max | L max | P ±0.75 | φd | | | | |
| FPT22J103K-F | 630 | 0.01 | ±10 | 4.7 | — | 14.0 | 12.5 | 10.0 | 0.6 | 1.3 | 1500 | | |
| FPT22J153K-F | | 0.015 | | 5.0 | — | 15.0 | 12.5 | 10.0 | 0.6 | 1.9 | 1250 | | |
| FPT22J223K-F | | 0.022 | | 4.8 | — | 14.8 | 12.5 | 10.0 | 0.6 | 2.2 | 1250 | | |
| FPT22J333K-F | | 0.033 | | 5.8 | — | 16.2 | 12.5 | 10.0 | 0.6 | 3.4 | 1000 | | |
| FPT22J473K | | 0.047 | | 6.0 | 11.1 | - | 12.5 | 10.0 | 0.6 | 3.8 | 500 | | |
| — | | 0.068 | | Please use the FPT2 series for this range. | | | | | | | | | |
| — | | 0.1 | | | | | | | | | | | |
| — | | 0.15 | | | | | | | | | | | |
| — | | 0.22 | | | | | | | | | | | |
| — | | 0.33 | | | | | | | | | | | |
| — | | 0.47 | | | | | | | | | | | |
| — | | 0.68 | | | | | | | | | | | |
| — | 1.0 | | | | | | | | | | | | |
| — | 1.5 | | | | | | | | | | | | |
| — | 2.2 | | | | | | | | | | | | |

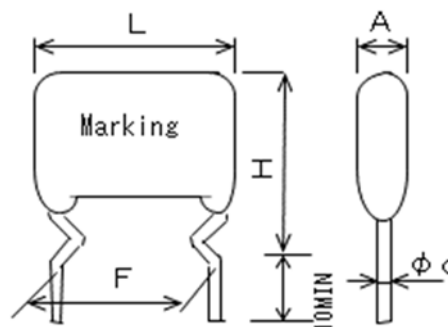
Capacitance tolerance J (±5%) is also available

※ For the range , please use the forming type.

■ **Component outline**



Example of forming type (-F)

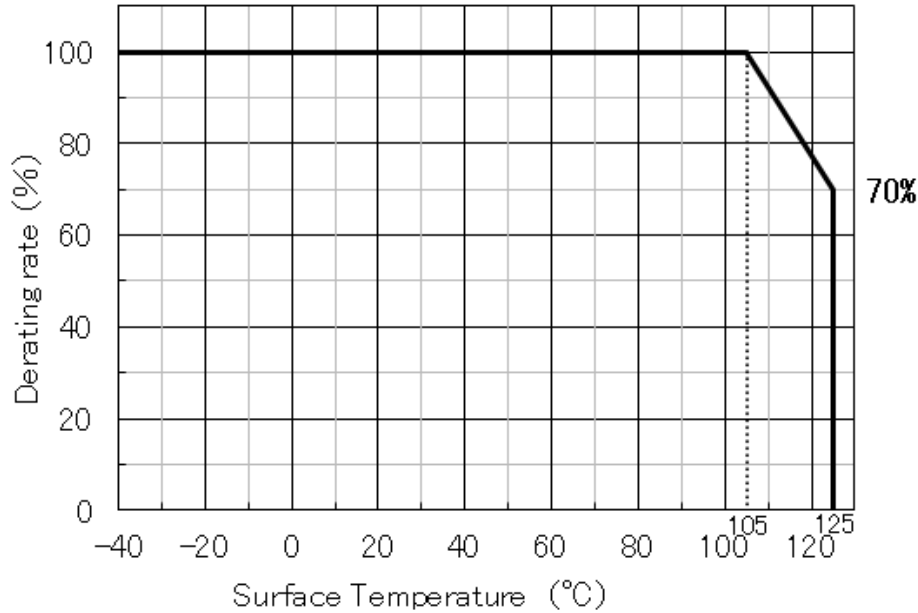


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Voltage derating

Temperature: Capacitors surface Temperature

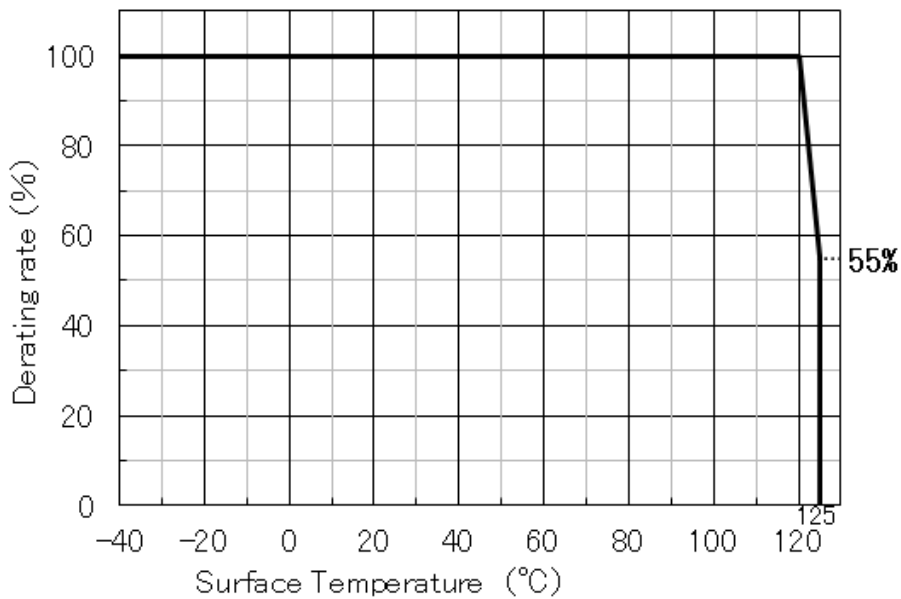
$$\text{Derating rate (\%)} = \frac{\text{Max operating voltage}}{\text{Rated voltage}} \times 100$$



Current derating (Effective current)

Temperature: Capacitors surface Temperature

$$\text{Derating rate (\%)} = \frac{\text{Max operating effective current}}{\text{Permissible effective current}} \times 100$$



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Permissible current (Effective value) vs Frequency

FPT 630VDC

