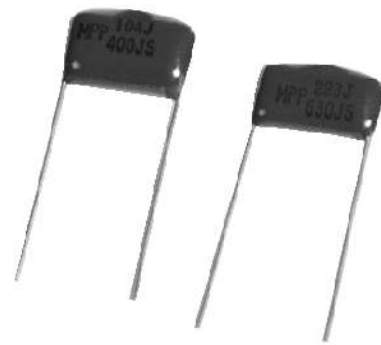


POLYPROPYLENE FILM AND FOIL CAPACITORS

PPN Series



INTRODUCTION :

◆ **PPN Series** capacitor are constructed with polypropylene film dielectric, aluminum foil electrode, copper-ply lead and epoxy resin coating in non-inductive type.

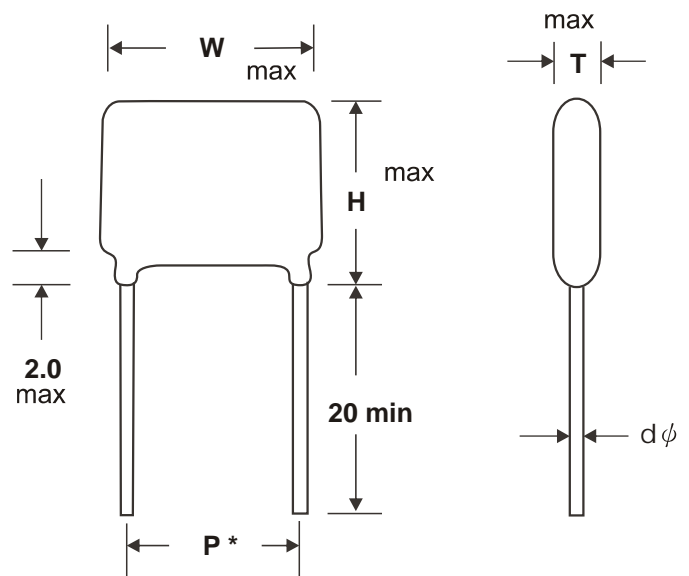
FEATURES :

- ◆ Low dissipation factor (DF) and high insulation resistance (IR).
- ◆ High stability and electrical characteristics.
- ◆ Electrode and lead are spot welded, equivalent series resistance (ESR) is minimized.
- ◆ Non inductive construction.
- ◆ Epoxy resin coating enhance mechanical strength and moisture resistance.

SPECIFICATION :

1. **OPERATING TEMPERATURE** : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$.
2. **CAPACITANCE RANGE** : $0.001 \sim 0.47 \mu\text{F}$.
3. **CAPACITANCE TOLERANCE** : $\pm 5\%$ (J), $\pm 10\%$ (K), $\pm 20\%$ (M).
4. **RATED VOLTAGE** : 250 V, 400 V, 630 VDC.
5. **TESTING VOLTAGE** : 200% of rated voltage for 1 minute.
6. **DISSIPATION FACTOR (DF)** : 0.1% max when measured at 1 K Hz, between 25°C and 85°C .
7. **IR** : When measured at rated voltage or 500 V. whichever is small, and at 25°C .
 I) if $C \leq 0.1 \mu\text{F}$ $IR \geq 30,000 \text{ M}\Omega$.
 ii) if $C > 0.1 \mu\text{F}$ $IR \times C > 10,000 \text{ M}\Omega \mu\text{F}$.
8. **CAPACITANCE DRIFT** : 2% max when cycled. through the operating temperature range.

OUTLINE DRAWING



9. **DERATED VOLTAGE** : If the capacitance is over than $0.1 \mu\text{F}$, the derated voltage should be shown as TABLE 1.

Nominal Cap.	Derated Voltage		
	250 V	400 V	630 V
0.12	244	390	614
0.15	237	380	599
0.18	231	370	583
0.22	225	360	567
0.27	219	350	
0.33	212	340	
0.39	206		
0.47	200		

10. **MARKING** : Capacitance, tolerance, rated voltage and Series code.

