



KRISHNONICS CAPACITORS

AC PULSE APPLICATION METALIZED POLYPROPYLENE FILM CAPACITORS (PP / MPP Series) (Available in both dip and box type designs)

MAIN APPLICATION

High Voltage and high frequency applications where high currents and / or sleep pulses

TAN δ

0.1 % (maximum) at 1kHz

CONSTRUCTION

Series constructed, impregnated polypropylene film, aluminum foil and metallised polypropylene film as internal electrodes, protected by a hard, water repellent, solvent epoxy resin (dip type). Encapsulated in flame retardant plastic box with resin. (box type)

LIFE TEST CONDITIONS

(Loading at elevated temperature)
Loaded at 1.25 times rated AC voltage at 70°C or for 1000 hours.

CLIMATIC CATEGORY

40/85/21 (dip type); 40/100/21 (box type)

After the test:

Δ c/c: ≤ 3% of the initial value

Increase of Tan δ : ≤ 0.002 C_R 1μF

APPLICABLE SPECIFICATION

IEC 384-17 IEC 68

APPROVALS

Capacitors are tested as per IEC 384-17

CAPACITANCE TOLERANCE

± 5%, ± 10%

dV/dt AT RATED VOLTAGE

> 1000 v/us (Details available on request)

VOLTAGE PROOF

Between terminals: 2 times of rated voltage for 2 seconds.

INSULATION RESISTANCE

Between leads > 100000 MΩ

Between interconnected leads and case > 100000 MΩ

| Max. Dimensions | Rated Cap (μfd) | Th mm | H mm | W mm | D ± 0.05mm |
|----------------------|-----------------|-------|------|------|------------|
| Rated Voltage | | | | | |
| 1600V(600VAC) | | | | | |
| 15 mm pitch | 0.001 | 5 | 11 | 18 | 0.8 |
| (+/- 1 mm) | 0.0015 | 5 | 11 | 18 | 0.8 |
| | 0.0022 | 5 | 11 | 18 | 0.8 |
| | 0.0033 | 5 | 11 | 18 | 0.8 |
| | 0.0047 | 5 | 11 | 18 | 0.8 |
| | 0.0052 | 6 | 12 | 18 | 0.8 |
| | 0.0068 | 6 | 12 | 18 | 0.8 |
| | 0.0072 | 6.5 | 12.5 | 18 | 0.8 |
| | 0.0082 | 6.5 | 12.5 | 18 | 0.8 |
| | 0.0091 | 7.5 | 13.0 | 18 | 0.8 |
| | 0.01 | 7.5 | 13.0 | 18 | 0.8 |
| | 0.022 | 8.5 | 13.5 | 18 | 0.8 |



| Max. Dimensions | Rated Cap (μfd) | Th mm | H mm | W mm | D ± 0.05mm |
|----------------------|-----------------|-------|------|------|------------|
| Rated Voltage | | | | | |
| 2000V(750VAC) | | | | | |
| 22.5 mm pitch | 0.001 | 6.5 | 13 | 27.5 | 0.8 |
| (+/- 1 mm) | 0.0015 | 6.5 | 13 | 27.5 | 0.8 |
| | 0.0022 | 6.5 | 14 | 27.5 | 0.8 |
| | 0.0033 | 6.5 | 14 | 27.5 | 0.8 |
| | 0.0047 | 6.5 | 14 | 27.5 | 0.8 |
| | 0.0052 | 6.5 | 14 | 27.5 | 0.8 |
| | 0.0068 | 6.5 | 14 | 27.5 | 0.8 |
| | 0.0072 | 8.5 | 14 | 27.5 | 0.8 |
| | 0.0082 | 8.5 | 14 | 27.5 | 0.8 |
| | 0.0091 | 8.5 | 14 | 27.5 | 0.8 |
| | 0.01 | 8.5 | 14 | 27.5 | 0.8 |

(Dimensions subject to change)

**AQL AND INSPECTION LEVEL**

1. Inspection level and AQLs are selected from ISO-2859 / IS 2500 or IEC – 410. Sampling plan is single sampling for normal inspection.
2. Symbols used: IL = Inspection level (ISO-2859/IS-2500/IEC – 410)
AQL = acceptable quality level

| NO | ITEM | | PERFORMANCE REQUIREMENTS | TEST METHOD | I.L. | A.Q.C |
|----|--|--|--|--------------------------------------|------------------------------|-------|
| 1 | VISUAL INSPECTION Marking Mechanical Failure | Rated capacitance Rated voltage Tolerance Trade mark Lead wire broken Insufficient coating | Marking should be legible There shall be no mechanical failure | Visual inspection -do- | General inspection level II | 1.0% |
| 2 | DIMENSION | Should confirm to the specification chart | As specified in the data sheet | Gauging | Special inspection level S-1 | 2.5% |
| 3 | ELECTRICAL PROPERTIES Voltage Proof Capacitance Tangent of loss angle Insulation Resistance | Between termination As per relevant specification Within specified tolerance As per relevant specification As per relevant specification | No break down or flash over of applicant Measuring frequency 1 kHz Measuring frequency 1 kHz As per method in the specification | Test voltage and duration of level 1 | General Inspection | 0.1% |