

# METALLIZED POLYPROPYLENE FILM CAPACITOR – X2

**Suntan®**

NON – INDUCTIVE, (UL940V-0) PLASTIC CASE SEALED WITH EPOXY RESIN

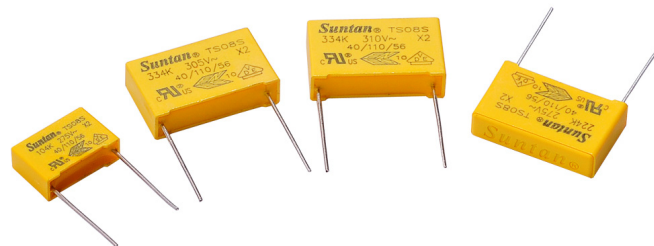
## FEATURES

- Provides interference suppression with VDE & ENEC and UL safety approvals.

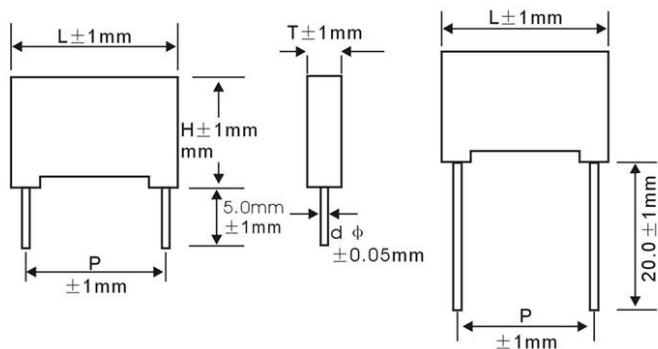
# TS08S

## SPECIFICATIONS

|                       |                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------|
| VOLTAGE RATING        | 250/275/305/310 VAC                                                                      |
| CAPACITANCE RANGE     | 0.001 – 2.2μF                                                                            |
| CAPACITANCE TOLERANCE | ±10%std.                                                                                 |
| OPERATING TEMPERATURE | -40°C to +110°C                                                                          |
| TESTING VOLTAGE       | 4.3UR DC /5s                                                                             |
| DISSIPATION FACTOR    | tg δ ≤0.0010 1KHz                                                                        |
| INSULATION RESISTANCE | C <sub>R</sub> ≤0.33 μ F, I.R≥15,000MΩ<br>C <sub>R</sub> >0.33 μ F, I.R≥6,000S (MΩ/ μ F) |



|         | COUNTRY        | APPROVAL STANDARD                      | APPROVAL NO. | CLASS | CAP. RANGE     | RATED VOLTAGE      |
|---------|----------------|----------------------------------------|--------------|-------|----------------|--------------------|
| cUL/ UL | CANADA / U.S.A | UL/IEC 60384-14                        | E344971      | X2    | 0.001 to 2.2μF | 250/275/305/310VAC |
| VDE     | GERMANY        | DIN EN 60384-14<br>(VDE 0565 Teil 1-1) | 40035433     | X2    | 0.001 to 2.2μF | 275/305/310VAC     |
| ENEC    | EUROPE         | EN 60384-14; IEC 60384-14              | 40035433     | X2    | 0.001 to 2.2μF | 275/305/310VAC     |



Standard Lead Length: 20.0±1mm

Dimensions Table for 275V AC:

(Unit : mm)

| A type |       |       |       |       |          |       |       |       |       |       |          |
|--------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|----------|
| CAP    | L±1.0 | T±1.0 | H±1.0 | P±1.0 | d Ø±0.05 | CAP   | L±1.0 | T±1.0 | H±1.0 | P±1.0 | d Ø±0.05 |
| 0.001  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.056 | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      |
| 0.0022 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.068 | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      |
| 0.0027 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.082 | 18.0  | 6.0   | 12.0  | 15.0  | 0.6      |
| 0.0033 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.1   | 18.0  | 6.0   | 12.0  | 15.0  | 0.8      |
| 0.0039 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.12  | 18.0  | 7.5   | 13.5  | 15.0  | 0.8      |
| 0.0047 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.15  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.0056 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.18  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.0068 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.22  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.0082 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.27  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.01   | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.33  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.012  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.47  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.015  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.56  | 31.5  | 10.8  | 19.5  | 27.5  | 0.8      |
| 0.018  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.68  | 31.5  | 10.8  | 19.5  | 27.5  | 0.8      |
| 0.022  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.82  | 31.5  | 10.8  | 19.5  | 27.5  | 0.8      |
| 0.027  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 1.0   | 31.5  | 13.0  | 22.0  | 27.5  | 0.8      |
| 0.033  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 1.5   | 31.5  | 13.0  | 22.0  | 27.5  | 0.8      |
| 0.039  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 2.2   | 31.5  | 13.0  | 22.0  | 27.5  | 0.8      |
| 0.047  | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      |       |       |       |       |       |          |
| B type |       |       |       |       |          |       |       |       |       |       |          |
| 0.047  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.22  | 18.0  | 8.5   | 14.5  | 15.0  | 0.8      |
| 0.056  | 13.0  | 6.0   | 12.0  | 10.0  | 0.6      | 0.33  | 18.0  | 10.0  | 15.8  | 15.0  | 0.8      |
| 0.068  | 13.0  | 6.0   | 12.0  | 10.0  | 0.6      | 0.47  | 18.0  | 11.0  | 19.0  | 15.0  | 0.8      |
| 0.082  | 13.0  | 6.0   | 12.0  | 10.0  | 0.6      | 0.56  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.1    | 13.0  | 6.0   | 12.0  | 10.0  | 0.8      | 0.68  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.15   | 18.0  | 7.5   | 13.5  | 15.0  | 0.8      | 0.82  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.18   | 18.0  | 7.5   | 13.5  | 15.0  | 0.8      | 1.0   | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |

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## FEATURES

# TS08S

- Provides interference suppression with VDE & ENEC and UL safety approvals.

Dimensions Table for 305V AC:

(Unit : mm)

| A type |       |       |       |       |          |       |       |       |       |       |          |
|--------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|----------|
| CAP    | L±1.0 | T±1.0 | H±1.0 | P±1.0 | d Ø±0.05 | CAP   | L±1.0 | T±1.0 | H±1.0 | P±1.0 | d Ø±0.05 |
| 0.0022 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.056 | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      |
| 0.0027 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.068 | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      |
| 0.0033 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.082 | 18.0  | 6.0   | 12.0  | 15.0  | 0.6      |
| 0.0039 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.1   | 18.0  | 6.0   | 12.0  | 15.0  | 0.8      |
| 0.0047 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.12  | 18.0  | 7.5   | 13.5  | 15.0  | 0.8      |
| 0.0056 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.15  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.0068 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.18  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.0082 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.22  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.01   | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.27  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.012  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.33  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.015  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.47  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.018  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.56  | 31.5  | 10.8  | 19.5  | 27.5  | 0.8      |
| 0.022  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.68  | 31.5  | 10.8  | 19.5  | 27.5  | 0.8      |
| 0.027  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.82  | 31.5  | 10.8  | 19.5  | 27.5  | 0.8      |
| 0.033  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 1.0   | 31.5  | 13.0  | 22.0  | 27.5  | 0.8      |
| 0.039  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 1.5   | 31.5  | 13.0  | 22.0  | 27.5  | 0.8      |
| 0.047  | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      | 2.2   | 31.0  | 14.0  | 25.0  | 27.5  | 0.8      |
| B type |       |       |       |       |          |       |       |       |       |       |          |
| 0.01   | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      | 0.22  | 18.0  | 8.5   | 14.5  | 15.0  | 0.8      |
| 0.033  | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      | 0.27  | 18.0  | 10.0  | 15.8  | 15.0  | 0.8      |
| 0.047  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.33  | 18.0  | 10.0  | 15.8  | 15.0  | 0.8      |
| 0.056  | 13.0  | 6.0   | 12.0  | 10.0  | 0.6      | 0.47  | 18.0  | 11.0  | 19.0  | 15.0  | 0.8      |
| 0.068  | 13.0  | 6.0   | 12.0  | 10.0  | 0.6      | 0.56  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.082  | 13.0  | 6.0   | 12.0  | 10.0  | 0.6      | 0.68  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.1    | 13.0  | 6.0   | 12.0  | 10.0  | 0.8      | 0.82  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.15   | 18.0  | 7.5   | 13.5  | 15.0  | 0.8      | 1.0   | 26.5  | 11.0  | 20.0  | 22.5  | 0.8      |
| 0.18   | 18.0  | 7.5   | 13.5  | 15.0  | 0.8      | 1.5   | 26.5  | 13.0  | 22.0  | 22.5  | 0.8      |

Dimensions Table for 310V AC:

(Unit : mm)

| A type |       |       |       |       |          |       |       |       |       |       |          |
|--------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|----------|
| CAP    | L±1.0 | T±1.0 | H±1.0 | P±1.0 | d Ø±0.05 | CAP   | L±1.0 | T±1.0 | H±1.0 | P±1.0 | d Ø±0.05 |
| 0.0022 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.056 | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      |
| 0.0027 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.068 | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      |
| 0.0033 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.082 | 18.0  | 6.0   | 12.0  | 15.0  | 0.6      |
| 0.0039 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.1   | 18.0  | 6.0   | 12.0  | 15.0  | 0.8      |
| 0.0047 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.12  | 18.0  | 7.5   | 13.5  | 15.0  | 0.8      |
| 0.0056 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.15  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.0068 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.18  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.0082 | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.22  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.01   | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.27  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.012  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.33  | 26.5  | 7.0   | 16.5  | 22.5  | 0.8      |
| 0.015  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.47  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.018  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.56  | 31.5  | 10.8  | 19.5  | 27.5  | 0.8      |
| 0.022  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.68  | 31.5  | 10.8  | 19.5  | 27.5  | 0.8      |
| 0.027  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.82  | 31.5  | 10.8  | 19.5  | 27.5  | 0.8      |
| 0.033  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 1.0   | 31.5  | 13.0  | 22.0  | 27.5  | 0.8      |
| 0.039  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 1.5   | 31.5  | 13.0  | 22.0  | 27.5  | 0.8      |
| 0.047  | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      | 2.2   | 31.0  | 14.0  | 25.0  | 27.5  | 0.8      |
| B type |       |       |       |       |          |       |       |       |       |       |          |
| 0.01   | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      | 0.22  | 18.0  | 8.5   | 14.5  | 15.0  | 0.8      |
| 0.033  | 18.0  | 5.0   | 11.0  | 15.0  | 0.6      | 0.27  | 18.0  | 10.0  | 15.8  | 15.0  | 0.8      |
| 0.047  | 13.0  | 5.0   | 11.0  | 10.0  | 0.6      | 0.33  | 18.0  | 10.0  | 15.8  | 15.0  | 0.8      |
| 0.056  | 13.0  | 6.0   | 12.0  | 10.0  | 0.6      | 0.47  | 18.0  | 11.0  | 19.0  | 15.0  | 0.8      |
| 0.068  | 13.0  | 6.0   | 12.0  | 10.0  | 0.6      | 0.56  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.082  | 13.0  | 6.0   | 12.0  | 10.0  | 0.6      | 0.68  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.1    | 13.0  | 6.0   | 12.0  | 10.0  | 0.8      | 0.82  | 26.5  | 10.0  | 19.0  | 22.5  | 0.8      |
| 0.15   | 18.0  | 7.5   | 13.5  | 15.0  | 0.8      | 1.0   | 26.5  | 11.0  | 20.0  | 22.5  | 0.8      |
| 0.18   | 18.0  | 7.5   | 13.5  | 15.0  | 0.8      | 1.5   | 26.5  | 13.0  | 22.0  | 22.5  | 0.8      |

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