

**Suntan**

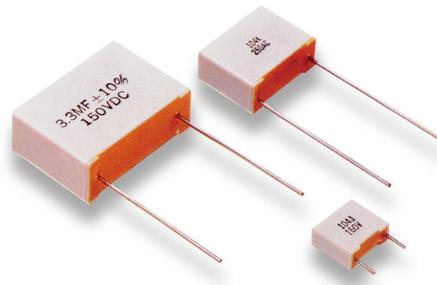
# METALLIZED POLYCARBONATE FILM CAPACITOR

**TS02C**

## FEATURES

- Wound with Metallized Polycarbonate Film
- Flame Retardant Plastic Sealed Case
- Less Dissipation Factor Small Temperature Coefficient of Capacitance
- Used in Logical Control Circuits, Integrator Circuits and Phase Shife Circuits of Precise Instruments

| SPECIFICATIONS                                 |           |                    |   |  |  |  |  |  |   |
|--|-----------|--------------------|---|--|--|--|--|--|---|
| Operating Temperature Range(°C)                |           |                    | -55~+85°C<br>±1%(F) ; ±2(G) ; ±5%(J) ; 10%(K) ; ±20%(M)<br>1.5 times of rated voltage |  |  |  |  |  |   |
| Item   | Parameter | Capacitance Change | Insulation Resistance   |  |  | Tangent of Loss Angle  |  |  |   |
| Under normal climatic Condition                |           |                    | --  |  |  | Cx<0.33μF: Uc>100V,2500S<br>Uc≤100V,1250S<br>Cx>0.33μF: Uc>100V,7500<br>Uc≤100V,3750 |  |  | Cx≤1μF ; 0.005<br>Cx>1μF ; 0.008                                |
| +40°C ; 90-95%RH ; 500h Damp heat steady state |           |                    | ± 5   |  |  | 50% of values undernormal climatic condition   |  |  | 0.005 Increase of tgδ compared to values of initial measurement |
| Endurance +85°C ; 1.25U ; 1000h                |           |                    | ± 5   |  |  | 50% of values undernormal climatic condition   |  |  | Cx≤1μF ; 0.005<br>Cx>1μF ; 0.003                                |
| Temperature Characteristic of Capacitance      |           |                    | -55°C - 3≤ΔC/C ≤ 0<br>+85°C - ΔC/C ≤±1.5  |  |  |  |  |  |   |



| (V <sub>-</sub> ) | 40           |      |     | 63  |     |              | (V <sub>-</sub> ) | 160 |     |     | 250          |      |     | (V <sub>-</sub> ) | 400 |              |      |     |      |     |
|-------------------|--------------|------|-----|-----|-----|--------------|-------------------|-----|-----|-----|--------------|------|-----|-------------------|-----|--------------|------|-----|------|-----|
| (mm)              | Max Size(mm) |      |     | P   | d   | Max Size(mm) |                   |     | P   | d   | Max Size(mm) |      |     | P                 | d   | Max Size(mm) |      |     | P    | d   |
| (μF)              | L            | H    | T   |     |     | L            | H                 | T   |     |     | L            | H    | T   |                   |     | L            | H    | T   |      |     |
| 0.022             | -            | 11.5 | 9.5 | 7.5 | 0.6 | 0.022        | 11.5              | 9.5 | 4.5 | 7.5 | 11.5         | 9.5  | 4.5 | 7.5               | 0.6 | 0.001        | 9.5  | 4.5 | 7.5  | 0.6 |
| 0.033             |              |      |     |     |     | 0.033        |                   |     |     |     |              |      |     |                   |     | 0.0015       |      |     |      |     |
| 0.047             |              |      |     |     |     | 0.047        |                   |     |     |     |              |      |     |                   |     | 0.0022       |      |     |      |     |
| 0.068             |              |      |     |     |     | 0.068        |                   |     |     |     |              |      |     |                   |     | 0.0033       |      |     |      |     |
| 0.1               | 95           | 4.5  |     |     |     | 9.5          | 5                 |     |     |     | 11           | 6    |     |                   |     | 0.1          | 9.5  | 5   |      |     |
| 0.15              | 11.5         | 10   | 6   | 7.5 |     | 14.5         |                   |     | 10  |     | 11           | 6    |     |                   |     | 0.15         | 14.5 |     | 10   |     |
| 0.22              |              |      |     |     | 0.6 | 11           | 6                 |     |     |     |              |      |     |                   |     | 0.22         | 11   | 6   |      |     |
| 0.33              | 9.5          | 5    |     |     | 10  |              |                   |     |     |     | 9.5          | 5    |     |                   |     | 0.33         | 11   | 6   |      |     |
| 0.47              | 14.5         | 10.5 | 6   |     |     |              |                   |     |     |     | 14.5         |      |     |                   |     | 0.47         | 12   | 7.5 | 15   | 0.8 |
| 0.68              |              |      |     |     |     | 12           | 7.5               |     |     |     | 11           | 6    |     |                   |     | 0.68         | 14.5 | 10  |      |     |
| 1.0               |              |      |     |     |     | 14           | 8                 |     |     |     |              |      |     |                   |     | 0.1          | 14   | 8   |      |     |
| 1.5               |              |      |     |     |     | 17           | 9                 |     |     |     |              |      |     |                   |     | 0.15         | 17   | 9   |      |     |
| 2.2               |              |      |     |     |     | 10           |                   |     |     |     |              |      |     |                   |     | 0.22         |      |     |      |     |
| 3.3               |              |      |     |     |     | 19           |                   |     |     |     | 14           | 8    |     |                   |     | 0.33         | 14   | 8   | 27.5 | 1   |
| 4.7               |              |      |     |     |     | 12.5         |                   |     |     |     | 17           | 10   |     |                   |     | 0.47         | 23   | 13  | 27.5 | 1   |
| 6.8               |              |      |     |     |     | 23           |                   |     |     |     | 19           | 12.5 |     |                   |     | 0.68         | 27   | 13  |      |     |
| 10                |              |      |     |     |     | 13           |                   |     |     |     | 27           | 13   |     |                   |     | 1.0          |      |     |      |     |