

Surface Mount Type

POSCAP



Series : TA

Features

- Guaranteed at 85 °C 85 %RH
- RoHS compliance, Halogen free

Specifications

| Size code | B2 | D2E | D3L |
|----------------------------|---|--|------------------|
| Category temperature range | -55 °C to +105 °C | | |
| Rated voltage range | 4 V.DC to 10 V.DC | 2.5 V.DC to 10 V.DC | |
| Category voltage range | 4 V.DC to 10 V.DC | 2.5 V.DC to 10 V.DC | |
| Rated capacitance range | 47µF to 100 µF | 68 µF to 470 µF | 150 µF to 680 µF |
| Capacitance tolerance | ±20 % (120 Hz / + 20 °C) | | |
| Leakage current | Please see the attached characteristics list | | |
| Dissipation factor (tan δ) | Please see the attached characteristics list | | |
| Surge voltage (V.DC) | Rated voltage × 1.15 | | |
| Endurance | +105 °C, 2000 h, (B2 size : 1000 h) rated voltage applied | | |
| | Capacitance change | Within ±20 % of the initial value | |
| | tan δ | ≤ 1.5 times of the initial limit | |
| | DC leakage current | Within the initial limit | |
| Damp heat (Steady State) | +85 °C, 85 % to 90 %, 500 h, rated voltage applied | | |
| | Capacitance change | Within +50 %, -20 % of the initial value (2R5TAE470M(F), 2R5TAE330M(F, I), 2R5TAE220M(F, 9)) | |
| | tan δ | Within +40 %, -20 % of the initial value (Except for above model) | |
| | DC leakage current | Within the initial limit | |

Marking

| D2E, D3L Size | B2 Size | | | | | | | | | | | | | | | | | | | | |
|---|-------------------|-----|-----|------|------|------|----|----|--|--------------|---|-------------------|-----|------|-----|------|------|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <th>R. Voltage (V.DC)</th> <td>2.5</td> <td>4.0</td> <td>6.3</td> <td>10.0</td> </tr> <tr> <th>Code</th> <td>e</td> <td>g</td> <td>j</td> <td>A</td> </tr> </table> | R. Voltage (V.DC) | 2.5 | 4.0 | 6.3 | 10.0 | Code | e | g | j | A | <table border="1"> <tr> <th>R. Voltage (V.DC)</th> <td>2.5</td> <td>4.0</td> <td>6.3</td> <td>10.0</td> </tr> <tr> <th>Code</th> <td>e</td> <td>g</td> <td>j</td> <td>A</td> </tr> </table> | R. Voltage (V.DC) | 2.5 | 4.0 | 6.3 | 10.0 | Code | e | g | j | A |
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Dimensions (not to scale)

| Size Code | L±0.3*1 | W±0.2 | H±0.2*2 | S±0.2 | W1±0.1 |
|-----------|---------|-------|---------|-------|--------|
| B2 | 3.5 | 2.8 | 1.9 | 0.8 | 2.2 |
| D2E | 7.3 | 4.3 | 1.8 | 1.3 | 2.4 |
| D3L | 7.3 | 4.3 | 2.8 | 1.3 | 2.4 |

Unit : mm

*1 ±0.2 : B2
*2 ±0.1 : B2, D2E

Characteristics list

| Series | Rated voltage (V.DC) | Rated temp. (°C) | Category voltage (V.DC) | Category temp. (°C) | Rated capacitance (µF) | Case size (mm) | | | Size code | Specifications | | | | Standard | | | | | | | | | |
|--------|----------------------|------------------|-------------------------|---------------------|------------------------|----------------|--------------|------|-----------|----------------------|-----------------|---------|-----------|-------------|--------------------------|-----------|------|----|------|-----|------|------|----------|
| | | | | | | L | W | H | | Ripple*1 (mA r.m.s.) | ESR*2 (mΩ max.) | tan δ*3 | LC*4 (µA) | Part number | Min. Packaging Qty (pcs) | | | | | | | | |
| TA | 2.5 | 105 | 2.5 | 105 | 220 | 7.3 | 4.3 | 1.8 | D2E | 3900 | 9 | 0.10 | 110.0 | 2R5TAE220M9 | 3000 | | | | | | | | |
| | | | | | | | | | | 3100 | 15 | 0.10 | 55.0 | 2R5TAE220MF | 3000 | | | | | | | | |
| | | | | | | | | | | 2400 | 25 | 0.10 | 55.0 | 2R5TAE220M | 3000 | | | | | | | | |
| | | 3100 | 15 | 0.10 | 82.5 | 2R5TAE330MF | 3000 | | | | | | | | | | | | | | | | |
| | | 2800 | 18 | 0.10 | 82.5 | 2R5TAE330MI | 3000 | | | | | | | | | | | | | | | | |
| | | 2400 | 25 | 0.10 | 82.5 | 2R5TAE330M | 3000 | | | | | | | | | | | | | | | | |
| | | D3L | 3100 | 15 | 0.10 | 117.5 | 2R5TAE470MF | 3000 | | | | | | | | | | | | | | | |
| | | | 2400 | 25 | 0.10 | 117.5 | 2R5TAE470M | 3000 | | | | | | | | | | | | | | | |
| | | | 3100 | 15 | 0.10 | 170.0 | 2R5TAE680MFL | 2500 | | | | | | | | | | | | | | | |
| | | | 2400 | 25 | 0.10 | 170.0 | 2R5TAE680ML | 2500 | | | | | | | | | | | | | | | |
| | | | 4 | 105 | 4.0 | 105 | 100 | 3.8 | 2.8 | 1.9 | B2 | 1100 | 70 | 0.08 | 40.0 | 4TAB100M | 2000 | | | | | | |
| | | | | | | | | | | | | 2800 | 18 | 0.10 | 88.0 | 4TAE220MI | 3000 | | | | | | |
| | 2400 | 25 | | | | | | | | | | 0.10 | 88.0 | 4TAE220M | 3000 | | | | | | | | |
| | D3L | 105 | | 4.0 | 105 | 470 | 7.3 | 4.3 | 2.8 | D3L | 2800 | 18 | 0.10 | 188.0 | 4TAE470MIL | 2500 | | | | | | | |
| | | | | | | | | | | | 2400 | 25 | 0.10 | 188.0 | 4TAE470ML | 2500 | | | | | | | |
| | | | | | | | | | | | 2400 | 25 | 0.10 | 188.0 | 4TAE470ML | 2500 | | | | | | | |
| | 6.3 | 105 | 6.3 | 105 | 47 | 3.5 | 2.8 | 1.9 | B2 | 1100 | 70 | 0.08 | 29.6 | 6TAB47M | 2000 | | | | | | | | |
| | | | | | | | | | | 1100 | 70 | 0.08 | 42.8 | 6TAB68M | 2000 | | | | | | | | |
| | | | | | | | | | | 2400 | 25 | 0.10 | 94.5 | 6TAE150M | 3000 | | | | | | | | |
| | | | D2E | 105 | 6.3 | 105 | 150 | 7.3 | 4.3 | 1.8 | D2E | 2800 | 18 | 0.10 | 138.6 | 6TAE220MI | 3000 | | | | | | |
| | | | | | | | | | | | | 2400 | 25 | 0.10 | 138.6 | 6TAE220M | 3000 | | | | | | |
| | | | | | | | | | | | | 2400 | 25 | 0.10 | 138.6 | 6TAE220M | 3000 | | | | | | |
| | | 10 | 105 | 6.3 | 105 | 330 | 7.3 | 4.3 | 2.8 | D3L | 2400 | 25 | 0.10 | 207.9 | 6TAE330ML | 2500 | | | | | | | |
| | | | | | | | | | | | 105 | 10.0 | 105 | 47 | 3.5 | 2.8 | 1.9 | B2 | 1100 | 70 | 0.08 | 47.0 | 10TAB47M |
| 105 | | | | | | | | | | | | | | | | | | | 10.0 | 105 | 68 | 7.3 | 4.3 |
| | | | 105 | 10.0 | 105 | 150 | 7.3 | 4.3 | 2.8 | D3L | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | | 25 | 0.10 | 220.0 | 10TAE220ML | 2500 | | | | | | | | |

*1 Ripple current (100 kHz/ +45 °C), *2 ESR (100 kHz/+20 °C) *3 tan δ (120 Hz/+20 °C) *4 After 5 minutes

◆ Please refer to each page in this catalog for "Reflow conditions" and "Taping specifications".