

TANTALUM CAPACITOR- DIPPED

Suntan®

RESIN COATED, INFLAMMABLE AND MOISTURE RESISTANT EPOXY POWDER

FEATURES

TS19

Epoxy -- coated solid electrolyte tantalum capacitors are encapsulated with flame -- retardant yellow epoxy powder, marked with laser. It meets and exceeds the requirements of IEC Specification 384 – 15 -- 3, IECQ Specification QC300201/US0003 and Technical Specification SJ/T10856--96, used in military and civil applications such as TV sets, camcorders, computers, program--controlled electronic telephone switching systems, telephones, instruments and meters.

SPECIFICATIONS

| | |
|-----------------------------|---|
| OPERATING TEMPERATURE | -55°C to +125°C; >85°C with rated voltage derating. |
| RATED VOLTAGE | See table 1 |
| DC LEAKAGE AT 20°C | 10 ≤ 0.01C _R V _R or 0.5 μA (Whichever is greater). |
| DISSIPATION FACTOR AT 20°C | Please See Table 3 |
| CAPACITANCE RANGE | 0.047 μF ~ 680 μF |
| CAPACITANCE TOLERANCE | ±20%; ±10%; ±5%; (for special order) |
| CASE SIZES AND DIMENSIONS | Please see Table 2 |
| TEMPERATURE CHARACTERISTICS | See Table 3 |



TEMPERATURE CHARACTERISTICS

Table 3

| Capacitance (uF) | Cap. Change (%) | | | DF Max. (%) | | | | DCL Max. (μF) | | |
|------------------|-----------------|-------|--------|-------------|-------|-------|--------|---|-------|---------|
| | -55°C | +85°C | +125°C | -55°C | +20°C | +85°C | +125°C | +20°C | +85°C | +125°C |
| <1.0 | -10 | +15 | +25 | 6 | 4 | 6 | 6 | 10 ≤ 0.02 C _R U _R or 1uF whichever is greater | +10lo | +12.5lo |
| 1.5 - 68 | | | | 8 | 6 | 8 | 8 | | | |
| 10 - 68 | | | | 10 | 8 | 10 | 10 | | | |
| 100 - 680 | | | | 12 | 10 | 12 | 12 | | | |

DIMENSIONS - MILLIMETERS

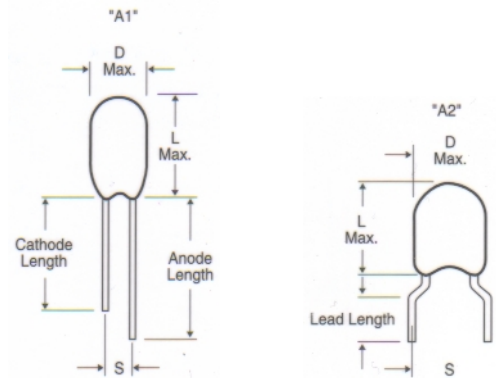
Table 2

| Case Size | D (max) | L (max) | S (±1mm) | d (±0.5mm) |
|-----------|---------|---------|----------|------------|
| A | 4.5 | 7.0 | 2.54 | 0.5 |
| B | 5.0 | 8.0 | 2.54 | 0.5 |
| C | 5.5 | 9.5 | 2.54 | 0.5 |
| D | 6.5 | 11.0 | 2.54 | 0.5 |
| E | 8.5 | 13.0 | 5.08 | 0.5 |
| F | 9.5 | 16.5 | 5.08 | 0.5 |

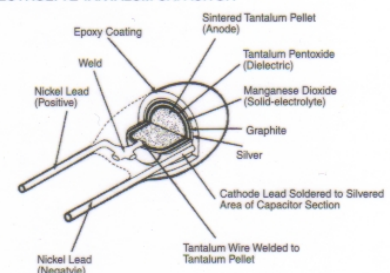
Rated Voltage, Nominal Capacitance and Case Sizes

Table 1

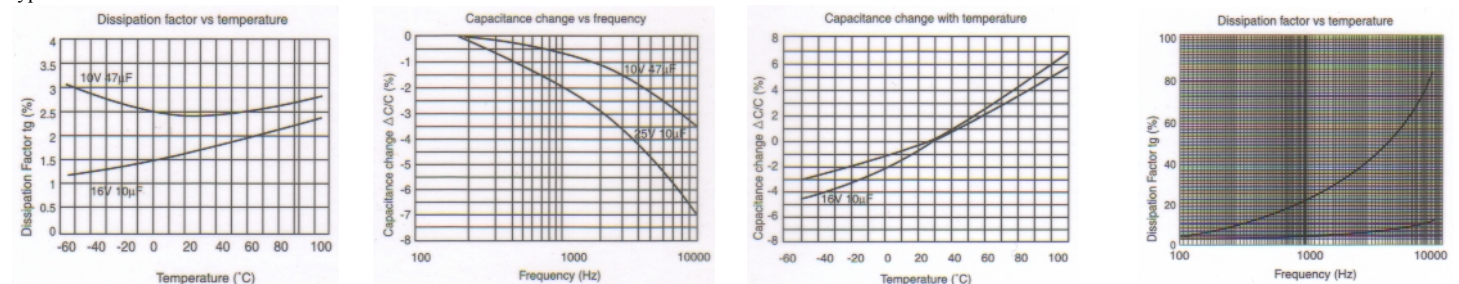
| Rated Voltage (V) | 3 | 4 | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |
|-------------------------|-----------|-----|-----|-----|----|----|----|----|----|
| Voltage Derating (V) | 2 | 2.5 | 4 | 6.3 | 10 | 13 | 16 | 20 | 32 |
| Surge Voltage (V) +85°C | 4 | 5.2 | 8 | 13 | 20 | 26 | 33 | 46 | 65 |
| Capacitance | Case size | | | | | | | | |
| 0.047 | | | | | | | | A | A |
| 0.068 | | | | | | | | A | A |
| 0.1 | | | | | | | | A | A |
| 0.15 | | | | | | | | A | A |
| 0.22 | | | | | | | | A | A |
| 0.33 | | | | | | | | A | A |
| 0.47 | | | | | | | | A | A |
| 0.68 | | | | | | | | A | A |
| 1.0 | | | | | A | A | A | A | B |
| 1.5 | | | | | A | A | A | A | C |
| 2.2 | | | | A | A | A | A | B | C |
| 3.3 | | | A | A | A | B | B | B | D |
| 4.7 | A | A | A | A | B | B | B | C | D |
| 6.8 | A | A | A | B | B | C | C | C | E |
| 10 | A | A | B | B | B | C | C | D | E |
| 15 | A | A | B | C | C | D | D | E | F |
| 22 | B | B | C | C | C | D | D | E | F |
| 33 | B | B | C | D | D | E | E | F | |
| 47 | C | C | D | D | D | E | E | F | |
| 68 | D | D | D | D | E | F | F | | |
| 100 | D | D | E | E | E | F | F | | |
| 150 | D | E | E | E | F | | | | |
| 220 | E | E | E | F | | | | | |
| 330 | E | F | F | | | | | | |
| 470 | F | | | | | | | | |
| 680 | F | | | | | | | | |



SINTERED CYLINDRICAL EPOXY-COATED SOLID ELECTROLYTE TANTALUM CAPACITOR



Typical Characteristic Curve



Note: Specification are subject to change without notice. For more detail and update, please visit our website.