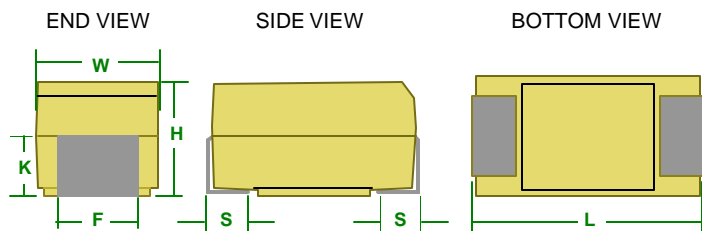


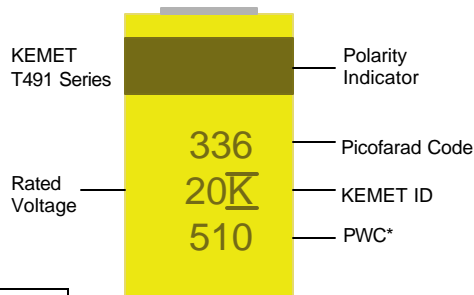
T49x Series - KEMET Tantalum Chip Capacitor

Product Specification – January 31, 2006

Component Outline Drawing



Component Marking



* 510 = 10th week of 2005

| Case Codes | | Component Dimensions | | | | | |
|------------|---------|----------------------|---------|---------|----------|------------|------------|
| | | L | W | H | K Min | F ± 0.1 | S ± 0.3 |
| KEMET | EIA | | | | | | |
| A | 3216-18 | 3.2±0.2 | 1.6±0.2 | 1.6±0.2 | 0.7 | 1.2 | 0.8 |
| B | 3528-21 | 3.5±0.2 | 2.8±0.2 | 1.9±0.2 | 0.9 | 2.2 | 0.8 |
| T | 3528-12 | 3.5±0.2 | 2.8±0.2 | 1.2 max | 0.3 | 2.2 | 0.8 |
| C | 6032-28 | 6.0±0.3 | 3.2±0.3 | 2.5±0.3 | 1.2 | 2.2 | 1.3 |
| D | 7343-31 | 7.3±0.3 | 4.3±0.3 | 2.8±0.3 | 1.3 | 2.4 | 1.3 |
| X | 7343-43 | 7.3±0.3 | 4.3±0.3 | 4.0±0.3 | 2.1 | 2.4 | 1.3 |
| E | 7260-38 | 7.3±0.3 | 6.0±0.3 | 3.6±0.2 | 2.1 | 4.1 | 1.3 |

Part Number and Electrical Specification Table

| KEMET Part Number | Case | Cap | Voltage | DCL V _R | DF 120Hz | T491 ESR 100kHz | T494 ESR 100kHz |
|-------------------|-----------|--------|---------|-----------------------|-------------|-----------------------|-----------------------|
| T49#D227(1)2R5A* | D/7343-31 | 220 μF | 2.5 V | 5.5 μA | 8 % | 0.3 Ω | 0.2 Ω |

Insert 1 for T491 ESR level or 4 for T494 ESR level

(1) Insert M for +/-20% or K for +/-10%

* Insert "T" for 100% tin (Sn) termination, "H" for tin/lead (Sn/Pb) termination

Land Pattern Dimensions for Reflow Solder

| KEMET/EIA Size Code | Pad Dimensions | | | | | |
|-----------------------|----------------|------|------|------------|------------|--|
| | Z | G | X | Y (ref) | C (ref) | |
| A/3216-18 | 4.70 | 0.80 | 1.50 | 1.95 | 2.75 | |
| B/3528-21 / T/3528-12 | 5.00 | 1.10 | 2.50 | 1.95 | 3.05 | |
| C/6032-28 | 7.60 | 2.50 | 2.50 | 2.55 | 5.05 | |
| D/7343-31 | 8.90 | 3.80 | 2.70 | 2.55 | 6.35 | |
| X/7343-43 | 8.90 | 3.80 | 2.70 | 2.55 | 6.35 | |
| E/7260-38 | 8.90 | 3.80 | 4.40 | 2.55 | 6.35 | |

Packaging Specifications

| Case Codes | | Tape and Reel Dimensions | | | | |
|------------|---------|--------------------------|------------------|----------|-------------------|--------------------|
| | | Tape Width mm | Pitch mm ±0.1 | | Reel Quantity | |
| KEMET | EIA | | Part | Sprocket | 180mm (7" dia) | 330mm (13" dia) |
| A | 3216-18 | 8±0.3 | 8 | 4 | 2000 | 9000 |
| B | 3528-21 | 8±0.3 | 8 | 4 | 2000 | 8000 |
| T | 3528-12 | 8±0.3 | 8 | 4 | 2500 | 10000 |
| C | 6032-28 | 12±0.3 | 8 | 4 | 500 | 3000 |
| D | 7343-31 | 12±0.3 | 8 | 4 | 500 | 2500 |
| X | 7343-43 | 12±0.3 | 8 | 4 | 500 | 2000 |
| E | 7260-38 | 12±0.3 | 8 | 4 | 500 | 2000 |

Rev. 1/31/2006