# Tantalum Product - **TAC** Series

## PRODUCT SPECIFICATIONS :



| | | |
|---|---|---|
| Nominal Capacitance @ 120Hz | 15 µF | |
| Capacitance Tolerance (*) | K = ±10%; M = ±20% | |
| Rated Voltage DC ($V_R$) | ≤ 85°C | 3 V |
| Category Voltage DC ($V_C$) | ≤ 125°C | 2 V |
| Surge Voltage ($V_S$) | ≤ 85°C | 3.9 V |
| | ≤ 125°C | 2.6 V |
| Temperature Range | -55°C to +125°C | |
| Direct Leakage Current max. @ $V_R$ | 0.5 µA | |
| Dissipation Factor max. @ 120Hz | 8 % | |
| ESR max. @ 100kHz | 5 Ohm | |
| Typical weight (R case) | 23.4 mg | |

RoHS COMPLIANT

LEAD-FREE

**LEAD-FREE COMPATIBLE COMPONENT**

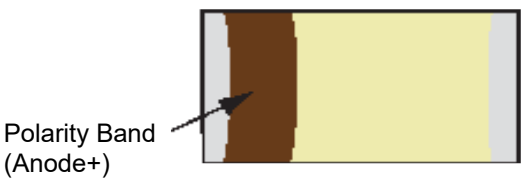
*Moisture sensitivity level: meets MSL 1*
*Reflow specification: meets J-STD-020 standard*
*100% surge current tested*
*All technical data relates to an ambient temperature of +25°C, Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2V.*
*DCL is measured at rated voltage after 5 minutes.*
*KYOCERA AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.*

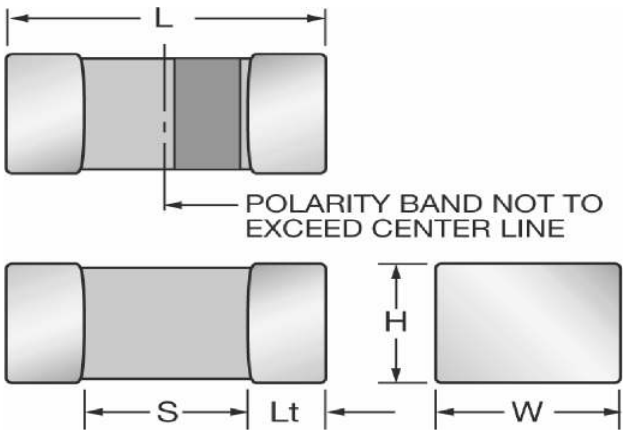
| RMS value of Ripple Current (mA) @100kHz | | | RMS value of Ripple Voltage (mV) @100kHz | | |
|---|---|---|---|---|---|
| 25˚C | 85˚C | 125˚C | 25˚C | 85˚C | 125˚C |
| 95 | 85 | 38 | 474 | 427 | 190 |

## HOW TO ORDER:

| TAC | R | 156 | * | 003 | # | TA |
|---|---|---|---|---|---|---|
| Type | Case code | Capacitance Value | Cap. Tolerance | Rated DC | Packaging | Suffix |

## DRAWING AND DIMENSIONS:



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## CASE DIMENSIONS: millimetres

| Case | | | | | | |
|---|---|---|---|---|---|---|
| EIA | Size | L +0.20 -0.00 | W +0.15 -0.00 | H +0.15 -0.00 | Lt min. | S min. |
| 0805 (2012M) | R | 2.0 | 1.35 | 1.35 | 0.15 | 0.7 |

## PACKAGING INFORMATION:

| Reel Size (#) | X = 4" Reel | R = 7" Reel | F = 4" Reel Gold Termination | A = 7" Reel Gold Termination |
|---|---|---|---|---|
| Quantity | 500 | 2500 | 500 | 2500 |
| Tape Width | 8 mm | 8 mm | 8 mm | 8 mm |
| Component pitch | 4 mm | 4 mm | 4 mm | 4 mm |
| Tape Type | Plastic embossed | Plastic embossed | Plastic embossed | Plastic embossed |

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