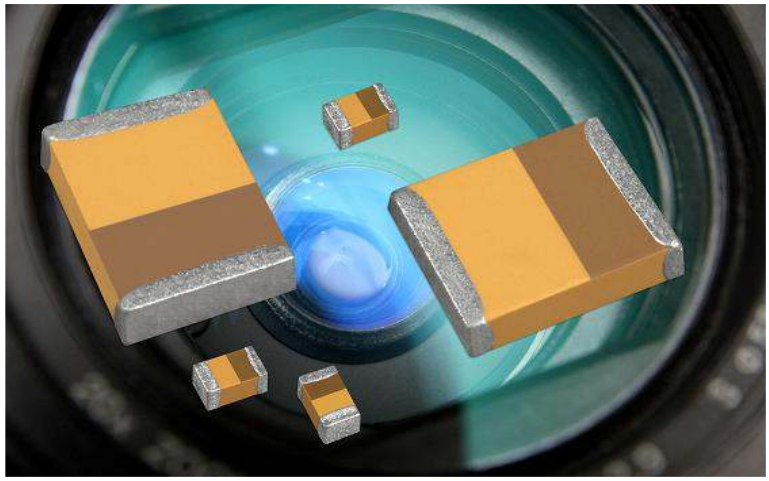
# Tantalum Product - **TLC** Consumer Series

## PRODUCT SPECIFICATIONS :

| | | |
|---|---|---|
| Nominal Capacitance @ 120Hz | 10 µF | |
| Capacitance Tolerance (*) | M = ± 20% | |
| Rated Voltage ($V_R$) | ≤ 40°C | 4 V |
| Category Voltage ($V_C$) | ≤ 85°C | 2 V |
| Category Voltage ($V_C$) | ≤ 125°C | 0.8 V |
| Surge Voltage (Vs) | ≤ 40°C | 5.2 V |
| Surge Voltage (Vs) | ≤ 85°C | 2.6 V |
| Surge Voltage (Vs) | ≤ 125°C | 1 V |
| Temperature Range with cat. Voltage | -55°C to +125°C | |
| Direct Leakage Current max. @ $V_R$ | 0.5 µA | |
| ESR max. @ 100kHz | 15 Ohm | |
| Typical weight (K case) | 2.8 mg | |



LEAD-FREE

**LEAD-FREE COMPATIBLE COMPONENT**

RoHS COMPLIANT

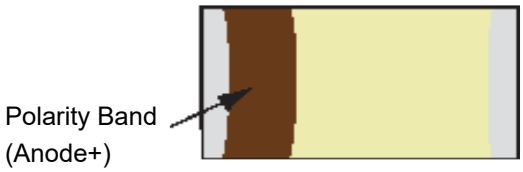
*Moisture sensitivity level: meets MSL 3*
*Reflow specification: meets J-STD-020 standard*
*100% surge current tested*
*All technical data relates to an ambient temperature of +25 °C, Capacitance is measured at 120Hz, 0.5RMS with DC bias of 2.2V. DCL is measured at rated voltage after 5 minutes.*
*ESR allowed to move up to 1.25 times catalogue limit post mounting, DCL allowed to move up to 2 times catalogue limit post mounting*
*KYOCERA AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards*

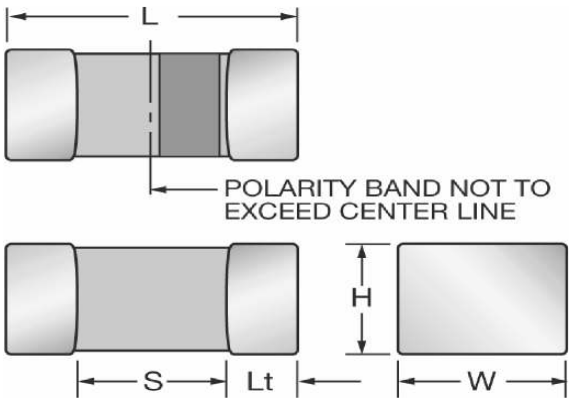
| RMS value of Ripple Current (mA) @100kHz | | | RMS value of Ripple Voltage (mV) @100kHz | | |
|---|---|---|---|---|---|
| 25˚C | 85˚C | 125˚C | 25˚C | 85˚C | 125˚C |
| 32 | 28 | 13 | 474 | 427 | 190 |

## HOW TO ORDER:

| TLC | K | 106 | M | 004 | # | TA |
|---|---|---|---|---|---|---|
| Type | Case code | Capacitance Value | Cap. Tolerance | Rated DC | Packaging | Suffix |

## DRAWING AND DIMENSIONS:



# Tantalum Product - **TLC** Consumer Series

## CASE DIMENSIONS: millimetres

| Case | | | | | | |
|---|---|---|---|---|---|---|
| EIA | Size | L +0.20 -0.00 | W +0.20 -0.00 | H +0.20 -0.00 | Lt min. | S min. |
| 0402 (1005M) | K | 1.0 | 0.5 | 0.5 | 0.1 | 0.4 |

## PACKAGING INFORMATION:

| Reel Size (#) | Q = 4" Reel | P = 7" Reel |
|---|---|---|
| Quantity | 1000 | 10000 |
| Tape Width | 8 mm | 8 mm |
| Component Pitch | 2 mm | 2 mm |
| Tape Type | Plastic embossed | Plastic embossed |

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