

# Tantalum Product - TAC Series

## PRODUCT SPECIFICATIONS :

Nominal Capacitance @ 120Hz	1 $\mu$ F
Capacitance Tolerance (*)	K = $\pm 10\%$ ; M = $\pm 20\%$
Rated Voltage DC ( $V_R$ )	$\leq 85^\circ\text{C}$ 10 V
Category Voltage DC ( $V_C$ )	$\leq 125^\circ\text{C}$ 7 V
Surge Voltage ( $V_S$ )	$\leq 85^\circ\text{C}$ 13 V
	$\leq 125^\circ\text{C}$ 8 V
Temperature Range	$-55^\circ\text{C}$ to $+125^\circ\text{C}$
Direct Leakage Current max. @ $V_R$	0.5 $\mu$ A
Dissipation Factor max. @ 120Hz	6 %
ESR max. @ 100kHz	7 Ohm
Typical weight (R case)	23.4 mg



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  $+25^\circ\text{C}$ , Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2V. DCL is measured at rated voltage after 5 minutes.

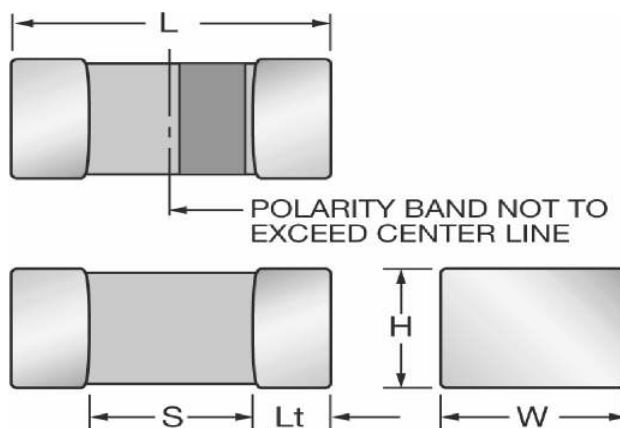
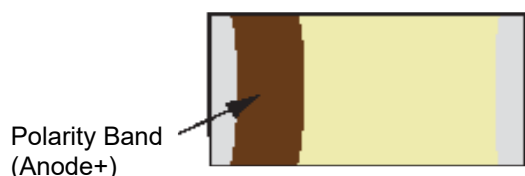
KYOCERA AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.

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
80	72	32	561	505	224

## HOW TO ORDER:

TAC	R	105	*	010	#	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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