Tantalum Product - **TPS Automotive** Low ESR

PRODUCT SPECIFICATIONS :

Nominal Capacitance @ 120Hz	100 µF	
Capacitance Tolerance (*)	K = ±10%; M = ±20%	
Rated Voltage DC (V_R)	≤ 85°C	10 V
Category Voltage DC (V_C)	≤ 125°C	7 V
Surge Voltage (V_S)	≤ 85°C	13 V
	≤ 125°C	8 V
Temperature Range	-55°C to +125°C	
Direct Leakage Current max. @ V_R	10 µA	
Dissipation Factor max. @ 120Hz	6 %	
ESR max. @ 100kHz	0.15 Ohm	
Typical weight (case)	290 mg	



RoHS COMPLIANT

LEAD-FREE

LEAD-FREE COMPATIBLE COMPONENT

Moisture sensitivity level: meets MSL 3

Reflow specification: meets J-STD-020 standard

Meets requirements of AEC-Q200

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

The EIA and CECC standards for low ESR solid Tantalum capacitors allow an ESR movement to 1.25 times catalogue limit post mounting

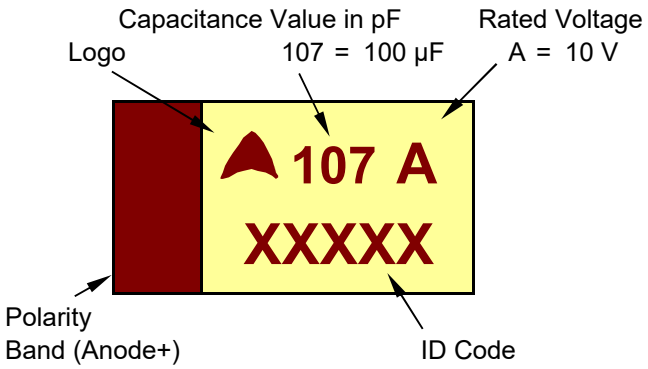
KYOCERA AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards

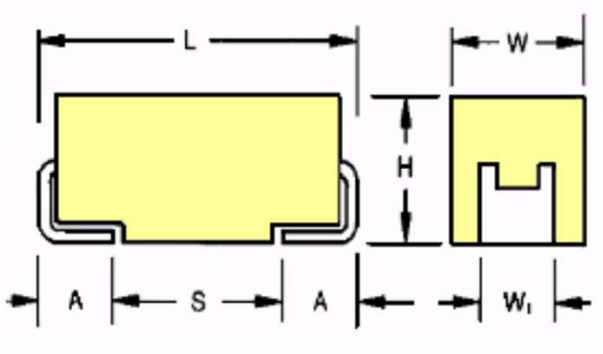
RMS value of Ripple Current (mA) @100kHz			RMS value of Ripple Voltage (mV) @100kHz		
25˚C	85˚C	125˚C	25˚C	85˚C	125˚C
1000	900	400	150	135	60

HOW TO ORDER:

TPS	D	107	*	010	#	0150	V
Type	Case code	Capacitance Value	Cap. Tolerance	Rated DC	Packaging Automotive Pure Tin T = 7" Reel U = 13" Reel	ESR in mOhms	Vacuum packing

DRAWING AND DIMENSIONS:





Tantalum Product - **TPS** Low ESR Series

CASE DIMENSIONS: millimetres

Case							
EIA	Size	L ±0.2	W +0.2 –0.1	H +0.2 –0.1	A +0.3 –0.2	S min.	W1 ±0.2
7343-31	D	7.3	4.3	2.9	1.3	4.4	2.4

PACKAGING INFORMATION:

Reel Size (#)	T = 7” Reel Automotive Pure Tin	U = 13” Reel Automotive Pure Tin
Quantity	500	2500
Tape Width	12 mm	12 mm

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