Tantalum Product - **TPS** Low ESR Series

PRODUCT SPECIFICATIONS :

Nominal Capacitance @ 120Hz	47 µF	
Capacitance Tolerance (*)	K = ±10%; M = ±20%	
Rated Voltage DC (V_R)	≤ 85°C	16 V
Category Voltage DC (V_C)	≤ 125°C	10 V
Surge Voltage (V_S)	≤ 85°C	20 V
	≤ 125°C	13 V
Temperature Range	-55°C to +125°C	
Direct Leakage Current max. @ V_R	7.5 µA	
Dissipation Factor max. @ 120Hz	6 %	
ESR max. @ 100kHz	0.2 Ohm	
Typical weight (D case)	290 mg	



RoHS COMPLIANT

LEAD-FREE

LEAD-FREE COMPATIBLE COMPONENT

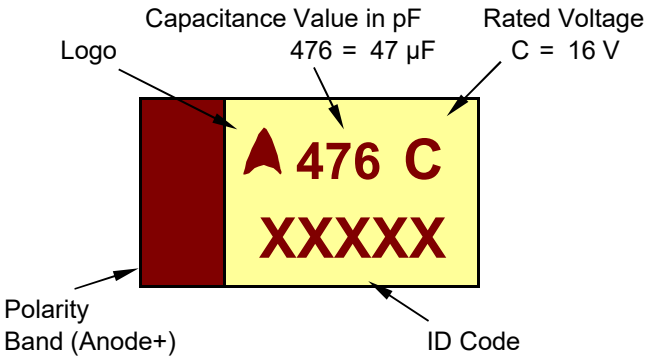
Moisture sensitivity level: meets MSL 1
Reflow specification: meets J-STD-020 standard
For AEC-Q200 availability, please contact KYOCERA AVX
100% surge current tested
All technical data relates to an ambient temperature of +25°C, Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2V. 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

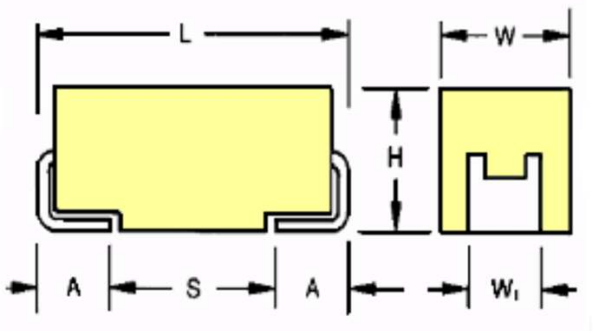
RMS value of Ripple Current (mA) @100kHz			RMS value of Ripple Voltage (mV) @100kHz		
25˚C	85˚C	125˚C	25˚C	85˚C	125˚C
866	779	346	173	156	69

HOW TO ORDER:

TPS	D	476	*	016	#	0200
Type	Case code	Capacitance Value	Cap. Tolerance	Rated DC	Packaging	ESR in mOhms

DRAWING AND DIMENSIONS:





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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 (#)	R = 7" Reel Pure Tin Termination	S = 13" Reel Pure Tin Termination	A = 7" Reel Gold Plated Termination	B = 13" Reel Gold Plated Termination
Quantity	500	2500	500	2500
Tape Width	12 mm	12 mm	12 mm	12 mm

Issued by: KYOCERA AVX Technical Marketing Team
Tantalum Division
More details at: www.kyocera-avx.com
Version: 10/2021

NORTH AMERICA
Tel: +1 864-967-2150

CENTRAL AMERICA
Tel: +55 11-46881960

EUROPE
Tel: +44 1276-697000

ASIA
Tel: +65 6286-7555

JAPAN
Tel: +81 740-321250

WWW.KYOCERA-AVX.COM

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