Low ESR







- Low ESR series of robust MnO₂ solid electrolyte capacitors
- CV range: 0.15-1500µF / 2.5-50V
- 14 case sizes available
- Power supply applications

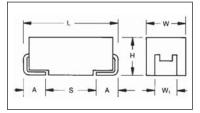




SnPb termination option is not RoHS compliant.

CASE DIMENSIONS: millimeters (inches)

Code	EIA	EIA	L±0.20	W+0.20 (0.008)	H+0.20 (0.008)	W ₁ ±0.20	A+0.30 (0.012)	S Min.
	Code	Metric	(800.0)	-0.10 (0.004)	-0.10 (0.004)	(0.008)	-0.20 (0.008)	
Α	1206	3216-18	3.20 (0.126)	1.60 (0.063)	1.60 (0.063)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
В	1210	3528-21	3.50 (0.138)	2.80 (0.110)	1.90 (0.075)	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
С	2312	6032-28	6.00 (0.236)	3.20 (0.126)	2.60 (0.102)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
D	2917	7343-31	7.30 (0.287)	4.30 (0.169)	2.90 (0.114)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
Е	2917	7343-43	7.30 (0.287)	4.30 (0.169)	4.10 (0.162)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
F	2312	6032-20	6.00 (0.236)	3.20 (0.126)	2.00 (0.079) max.	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
Р	0805	2012-15	2.05 (0.081)	1.35 (0.053)	1.50 (0.059) max.	1.00±0.10 (0.039±0.004)	0.50 (0.020)	0.85 (0.033)
R	0805	2012-12	2.05 (0.081)	1.30 (0.051)	1.20 (0.047) max.	1.00 ±0.10 (0.039 ±0.004)	0.50 (0.020)	0.85 (0.033)
S	1206	3216-12	3.20 (0.126)	1.60 (0.063)	1.20 (0.047) max.	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
Т	1210	3528-12	3.50 (0.138)	2.80 (0.110)	1.20 (0.047) max.	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
V	2924	7361-38	7.30 (0.287)	6.10 (0.240)	3.55 (0.140)	3.10 (0.120)	1.30 (0.051)	4.40 (0.173)
W	2312	6032-15	6.00 (0.236)	3.20 (0.126)	1.50 (0.059) max.	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
Х	2917	7343-15	7.30 (0.287)	4.30 (0.169)	1.50 (0.059) max.	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
Υ	2917	7343-20	7.30 (0.287)	4.30 (0.169)	2.00 (0.079) max.	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
			W1 dimension a	applies to the termin	ation width for A dir	mensional area c	nly.	



For part marking see page 130

HOW TO ORDER

TPS 107 C **Capacitance Code** Type **Case Size** See table above

pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)

M

Tolerance $K = \pm 10\%$ $M = \pm 20\%$ 010

Rated DC Voltage 002 = 2.5Vdc 004 = 4Vdc 006 = 6.3 Vdc

010 = 10 Vdc016 = 16 Vdc020 = 20 Vdc025 = 25 Vdc 025 = 25 Vdc 035 = 35 Vdc050 = 50 Vdc

R

Packaging R = Pure Tin 7" Reel S = Pure Tin 13" Reel A = Gold Plating 7" Reel

B = Gold Plating 13" Reel
H = Tin Lead 7" Reel
(Contact Manufacturer) K = Tin Lead 13" Reel (Contact Manufacturer) H, K = Non RoHS

0100

ESR in $m\boldsymbol{\Omega}$

Additional characters may be added for special requirements

V = Dry pack Option (selected codes only)

TECHNICAL SPECIFICATIONS

Technical Data:		All te	chnical d	ata relate	to an am	bient tem	perature	of +25°C			
Capacitance Range:		0.15	μF to 15	00 μF							
Capacitance Tolerance:		±109	%; ±20%								
Rated Voltage (V _R)	≤ +85°C:	2.5	4	6.3	10	16	20	25	35	50	
Category Voltage (V _C)	≤ +125°C:	1.7	2.7	4	7	10	13	17	23	33	
Surge Voltage (V _S)	≤ +85°C:	3.3	5.2	8	13	20	26	32	46	65	
Surge Voltage (V _S)	≤ +125°C:	2.2	3.4	5	8	13	16	20	28	40	
Temperature Range:		-55°	C to +12	5°C							
Environmental Classification:		55/1	25/56 (IE	C 68-2)							
Reliability:		1% p	oer 1000	hours at 8	35°C, V _R v	with 0.1Ω	√ series	impedanc	e,		
60% confidence level											
Termination Finished:		Sn F	lating (sta	andard), G	old and	SnPb Plat	ting upon	request			







CAPACITANCE AND RATED VOLTAGE, VR (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

Capa	citance				Rated \	Voltage DC (V _R) to	o 85°C			
μF	Code	2.5V (e)	4V (G)	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.15	154									A(9000)
0.22	224								A(6000)	A(7000)
0.33	334								A(6000)	
0.47	474							A(7000)	A(6000) B(4000)	C(2300)
0.68	684							A(6000)	A(6000)	
1	105				R(9000)		A(3000), R(6000) S(6000), T(2000)	R(2500,4000)	A(3000) B(2000)	C(2500)
1.5	155							A(3000) B(1800)	B(2500)	C(1500,2000)
2.2	225			R(7000)	A(1800)	A(1800,3500) T(2000)	A(3000)	B(900,1200,2500)	A(1500), B(750, 1500,2000), C(1000)	D(1200)
3.3	335				T(1500)	A(3500)	A(2500) B(1300)	A(1000,1500) B(750,1500,2000)	B(1000) C(700)	D(800)
4.7	475			S(4000)	A(1400) R(3000,5000)	A(2000) B(800,1500)	A(1800) B(750,1000)	B(700,900,1500)	B(700,1500) C(600), D(700)	D(300,500,700)
6.8	685			A(1800)	A(1800) T(1800)	A(1500) B(600,1200)	A(1000) B(600,1000) C(700)	B(700) C(500,600,700)	C(350) D(150,400,500)	D(200, 300, 500,600)
10	106		R(3000)	A(1500) R(1000,1500,3000) T(1000)	A(900,1800) P(2000) ^M , S(900) T(1000,2000)	B(500,800), C(500) T(800,1000) W(500,600)	B(500,1000) C(500,700) W(250, 500)	B(1800) C(300,500)	D(125,300) E(200), Y(250)	E(250,300, 400,500)
15	156			A(700,1500)	A(1000) B(450,600) T(1200)	B(500,800)	B(500) C(400,450)	C(220,300) D(100,300)	C(350,450) D(100,300) Y(250)	E(250) V(250)
22	226			A(500,900) B(375,600) S(900)	A(900) B(400,500,700) C(300), T(800)	B(400,600) C(150,250,300,375) W(500)	B(400,600) C(100,150,400) D(200,300)	C(275,400) D(100,200,300)	D(125,200,300,400) E(125,200,300) Y(200)	
33	336			A(600) B(250,350,450,600) T(800)	A(700) B(250,425,500,650) C(150,375,500) W(350)	B(350,500) C(100,150,225,300) D(200), W(140,175, 250,400,500) Y(300,400)	C(300) D(100,200)	D(100,200,300) E(100,175, 200,300) Y(200)	D(200,300) E(100,250,300) V(200)	
47	476		A(500)	A(800) B(250,350,500) C(300), T(1200)	B(250,350,500,650) C(200,350) D(100) W(125,150,250)	C(110,350) D(80,100,150,200) W(200) X(180), Y(250)	D(75,100,200) E(70,125,150, 200,250)	D(125,150,250) E(80,100,125)	E(200,250) V(150,200)	
68	686			B(250,350,500) C(150,200) W(110,125,250)	B(600) C(80,100,200,300) D(100,150), W(100,150) Y(100,200)	C(125,200) D(70,100,150) F(200), X(150) Y(150,200,250)	D(70,150, 200,300) E(125,150,200)	E(125,200) V(80,95,150,200)	V(150,200)	
100	107	B(200)	B(200,250, 350,500) W(100)	B(250,400) C(75,150) W(100,150) Y(100)	B(400) ^M C(75,100,150,200) D(50,65,80,100,125, 150), E(125) W(150) X(85,150,200) Y(100,150,200)	C(200) D(60,100,125,150) E(55,100,125,150) F(150,200) ^M Y(100,150,200)	D(85,100,150) E(100,150,200) V(60,85,100,200)	E(150) ^M /V(100)		
150	157	B(150)	B(250) C(70,80)	C(50,90,150,200,250) D(50,125), Y(40,50)	C(150), D(50,85,100), E(100), F(200), X(100) ^M Y(100,150,200)	D(60,85,100,125,150) E(100), V(45,75) Y(200) ^M	V(80)			
220	227	B(150, 200,600) D(45)	D(40,50,100) Y(40,50,75)	C(70,100,125,250) D(50,100,125) E(100), F(200) Y(100,150)	D(40,50,100,150) E(50,60,70,100, 125,150) Y(100,150,200)	E(100,150) V(50,75,100,150)				
330	337	Y(40)	C(100) D(35,45,100) F(200) X(100)	C(80,100) D(45,50,70,100) E(50,100,125,150) V(100), Y(100,150)	D(50,65,100,150) E(40,50,60,100) V(40,60,100)	E(200) ^M				
470	477	D(35) F(200) Y(100)	D(45,100) E(35,45,100)	D(45,60,100,200) E(45,50,60,100,200) V(40,55,100), Y(150)	E(45,50,60,100,200) V(40,60,100)					
680	687	D(35,50) E(35,50) Y(100)	D(45,60,100) E(40,60,100)	E(45,60,100) V(35,40,50)						
1000	108	E(30,40) Y(100) ^M	E(40,60) V(25,35,40,50)	E(100) ^M , V(40,50) ^M						
1500	158	D(100) E(50) V(30,40) ^M	E(50,75) V(50,75) ^{M)}							

Released codes (M tolerance only)

Engineering samples - please contact manufacturer

*Codes under development - subject to change

ESR limits quoted in brackets (milliohms)

NOTE: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.



Low ESR



RATINGS & PART NUMBER REFERENCE

AVX	Case	Capacitance	Rated Voltage	DCL (μA)	DF %	ESR Max. (mΩ)	MSL	100kH	Iz RMS Curr	ent (A)	100kH	z RMS Volta	ige (V)
Part No.	Size	Capacitance (μF)	(V)	Max.	Max.	@100kHz		25°C	85°C	125°C	25°C	85°C	125°C
				2.5	Volt	@ 85°C (1.7	7 Volt						
TPSB107*002#0200	В	100	2.5	5	6	200	1	0.652	0.587	0.261	0.130	0.117	0.052
TPSB157*002#0150	В	150	2.5	3	10	150	1	0.753	0.677	0.301	0.113	0.102	0.045
TPSB227*002#0150	В	220	2.5	4.4	16	150	1	0.753	0.677	0.301	0.113	0.102	0.045
TPSB227*002#0200	В	220	2.5	4.4	16	200	1	0.652	0.587	0.261	0.130	0.117	0.052
TPSB227*002#0600	В	220	2.5	4.4	16	600	1	0.376	0.339	0.151	0.226	0.203	0.090
TPSD227*002#0045	D	220	2.5	4.4	8	45	1	1.826	1.643	0.730	0.082	0.074	0.033
TPSY337*002#0040	Y	330	2.5	8.2	8	40	11)	1.768	1.591	0.707	0.071	0.064	0.028
TPSD477*002#0035	D	470	2.5	11.6	8	35	1	2.070	1.863	0.828	0.072	0.065	0.029
TPSF477*002#0200 TPSY477*002#0100	F	470 470	2.5	11.8	12	200	1 11)	0.707 1.118	0.636 1.006	0.283	0.141	0.127 0.101	0.057
	D	680	2.5 2.5	17	12 16	100 35	1	2.070	1.863	0.447 0.828	0.112	0.101	0.045 0.029
TPSD687*002#0035 TPSD687*002#0050	D	680	2.5	17	16	50	1	1.732	1.559	0.693	0.072	0.003	0.029
TPSE687*002#0030	E	680	2.5	17	10	35	1 1)	2.171	1.954	0.868	0.067	0.078	0.030
TPSE687*002#0050	E	680	2.5	17	10	50	11)	1.817	1.635	0.727	0.070	0.082	0.036
TPSY687*002#0030	Y	680	2.5	17	12	100	11)	1.118	1.006	0.727	0.031	0.101	0.030
TPSE108*002#0030	Ė	1000	2.5	20	14	30	11)	2.345	2.111	0.938	0.112	0.063	0.043
TPSE108*002#0040	Ē	1000	2.5	20	14	40	11)	2.031	1.828	0.812	0.070	0.073	0.020
TPSY108M002#0100	Ϋ́	1000	2.5	25	30	100	11)	1.118	1.006	0.447	0.001	0.101	0.002
TPSD158*002#0100	D	1500	2.5	37.5	60	100	1	1.1125	1.102	0.447	0.112	0.110	0.043
TPSE158*002#0050	E	1500	2.5	37.5	20	50	11)	1.817	1.635	0.727	0.001	0.082	0.036
TPSV158M002#0030	V	1500	2.5	30	20	30	11)	2.887	2.598	1.155	0.001	0.078	0.035
TPSV158M002#0040	V	1500	2.5	30	20	40	11)	2.500	2.250	1.000	0.100	0.090	0.040
			-10			85°C (2.7	Volt @						0.0.0
TPSR106*004#3000	R	10	4	0.5	6	3000	1	0.135	0.122	0.054	0.406	0.366	0.162
TPSA476*004#0500	Α	47	4	1.9	8	500	1	0.387	0.349	0.155	0.194	0.174	0.077
TPSB107*004#0200	В	100	4	4	8	200	1	0.652	0.587	0.261	0.130	0.117	0.052
TPSB107*004#0250	В	100	4	4	8	250	1	0.583	0.525	0.233	0.146	0.131	0.058
TPSB107*004#0350	В	100	4	4	8	350	1	0.493	0.444	0.197	0.172	0.155	0.069
TPSB107*004#0500	В	100	4	4	8	500	1	0.412	0.371	0.165	0.206	0.186	0.082
TPSW107*004#0100	W	100	4	4	6	100	1	0.949	0.854	0.379	0.095	0.085	0.038
TPSB157*004#0250	В	150	4	6	10	250	1	0.583	0.525	0.233	0.146	0.131	0.058
TPSC157*004#0070	С	150	4	6	6	70	1	1.254	1.128	0.501	0.088	0.079	0.035
TPSC157*004#0080	C	150	4	6	6	80	1	1.173	1.055	0.469	0.094	0.084	0.038
TPSD227*004#0040	D	220	4	8.8	8	40	1	1.936	1.743	0.775	0.077	0.070	0.031
TPSD227*004#0050	D	220	4	8.8	8	50	1	1.732	1.559	0.693	0.087	0.078	0.035
TPSD227*004#0100	D	220	4	8.8	8	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSY227*004#0040	Y	220 220	4	8.8	8	40 50	1 ¹⁾	1.768	1.591	0.707	0.071	0.064	0.028
TPSY227*004#0050 TPSY227*004#0075	Y	220	4	8.8 8.8	8	75	11)	1.581	1.423 1.162	0.632 0.516	0.095	0.085 0.087	0.038
TPSC337*004#0075	C	330	4	13.2	8	100	1	1.291 1.049	0.944	0.420	0.105	0.007	0.039
TPSD337*004#0100	D	330	4	13.2	8	35	1	2.070	1.863	0.420	0.103	0.094	0.042
TPSD337*004#0035	D	330	4	13.2	8	45	1	1.826	1.643	0.730	0.072	0.003	0.023
TPSD337*004#0100	D	330	4	13.2	8	100	1	1.225	1.102	0.490	0.002	0.110	0.033
TPSF337*004#0200	F	330	4	13.2	10	200	1	0.707	0.636	0.283	0.122	0.117	0.057
TPSX337*004#0100	X	330	4	13.2	8	100	11)	1.000	0.900	0.400	0.100	0.090	0.040
TPSD477*004#0045	Ď	470	4	18.8	12	45	1	1.826	1.643	0.730	0.082	0.074	0.033
TPSD477*004#0100	D	470	4	18.8	12	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSE477*004#0035	Ē	470	4	18.8	12	35	11)	2.171	1.954	0.868	0.076	0.068	0.030
TPSE477*004#0045	Ē	470	4	18.8	12	45	11)	1.915	1.723	0.766	0.086	0.078	0.034
TPSE477*004#0100	E	470	4	18.8	12	100	11)	1.285	1.156	0.514	0.128	0.116	0.051
TPSD687*004#0045	D	680	4	27.2	14	45	1	1.915	1.643	0.730	0.082	0.074	0.033
TPSD687*004#0060	D	680	4	27.2	14	60	1	1.581	1.423	0.632	0.095	0.085	0.038
TPSD687*004#0100	D	680	4	27.2	14	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSE687*004#0040	Е	680	4	27.2	10	40	11)	2.031	1.828	0.812	0.081	0.073	0.032
TPSE687*004#0060	Е	680	4	27.2	10	60	11)	1.658	1.492	0.663	0.099	0.090	0.040
TPSE687*004#0100	E	680	4	27.2	10	100	11)	1.285	1.156	0.514	0.128	0.116	0.051
TPSE108*004#0040	E	1000	4	40	14	40	11)	2.031	1.828	0.812	0.081	0.073	0.032
TPSE108*004#0060	E	1000	4	40	14	60	11)	1.658	1.492	0.663	0.099	0.090	0.040
TPSV108*004#0025	V	1000	4	40	16	25	11)	3.162	2.846	1.265	0.079	0.071	0.032
TPSV108*004#0035	V	1000	4	40	16	35	11)	2.673	2.405	1.069	0.094	0.084	0.037
TPSV108*004#0040	V	1000	4	40	16	40	11)	2.500	2.250	1.000	0.100	0.090	0.040
TPSV108*004#0050	V	1000	4	40	16	50	11)	2.236	2.012	0.894	0.112	0.101	0.045
TPSE158*004#0050	E	1500	4	60	30	50	11)	1.817	1.635	0.727	0.091	0.082	0.036
TPSE158*004#0075	E	1500	4	60	30	75	11)	1.483	1.335	0.593	0.111	0.100	0.044
TPSV158M004#0050	V	1500	4	60	30	50	11)	2.236	2.012	0.894	0.112	0.101	0.045
TPSV158M004#0075	l V	1500	4	60	30	75	11)	1.826	1.643	0.730	0.137	0.123	0.055

 $^{1^{\}circ}$ Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.



Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting. For typical weight and composition see page 123.

Low ESR



RATINGS & PART NUMBER REFERENCE

AVX	Case	Capacitance	Rated Voltage	DCL (μA)	DF %	ESR Max. (mΩ)	MSL		Iz RMS Curr			z RMS Volta	
Part No.	Size	(μF)	(V)	Max.	Max.	@100kHz		25°C	85°C	125°C	25°C	85°C	125°0
						@ 85°C (4	Volt @						
TPSR225*006#7000	R	2.2	6.3	0.5	6	7000	1	0.089	0.080	0.035	0.620	0.558	0.24
TPSS475*006#4000	S	4.7	6.3	0.5	6	4000	1	0.127	0.115	0.051	0.510	0.459	0.20
TPSA685*006#1800	Α	6.8	6.3	0.5	6	1800	1	0.204	0.184	0.082	0.367	0.331	0.14
TPSA106*006#1500	Α	10	6.3	0.6	6	1500	1	0.224	0.201	0.089	0.335	0.302	0.13
TPSR106*006#1000	R	10	6.3	0.6	8	1000	1	0.235	0.211	0.094	0.235	0.211	0.09
TPSR106*006#1500	R	10	6.3	0.6	8	1500	1	0.191	0.172	0.077	0.287	0.259	0.11
TPSR106*006#3000	R	10	6.3	0.6	8	3000	1	0.135	0.122	0.054	0.406	0.366	0.16
TPST106*006#1000	T	10	6.3	0.6	6	1000	1	0.283	0.255	0.113	0.283	0.255	0.11
TPSA156*006#0700	Α	15	6.3	0.9	6	700	1	0.327	0.295	0.131	0.229	0.206	0.09
TPSA156*006#1500	Α	15	6.3	0.9	6	1500	1	0.224	0.201	0.089	0.335	0.302	0.13
TPSA226*006#0500	Α	22	6.3	1.4	6	500	1	0.387	0.349	0.155	0.194	0.174	0.07
TPSA226*006#0900	Α	22	6.3	1.4	6	900	1	0.289	0.260	0.115	0.260	0.234	0.10
PSB226*006#0375	В	22	6.3	1.4	6	375	1	0.476	0.428	0.190	0.179	0.161	0.07
TPSB226*006#0600	В	22	6.3	1.4	6	600	1	0.376	0.339	0.151	0.226	0.203	0.09
ΓPSS226*006#0900	S	22	6.3	1.4	8	900	1	0.269	0.242	0.107	0.242	0.218	0.09
ΓPSA336*006#0600	Α	33	6.3	2.1	8	600	1	0.354	0.318	0.141	0.212	0.191	0.08
ΓPSB336*006#0250	В	33	6.3	2.1	6	250	1	0.583	0.525	0.233	0.146	0.131	0.05
PSB336*006#0350	В	33	6.3	2.1	6	350	1	0.493	0.444	0.197	0.172	0.155	0.06
TPSB336*006#0450	В	33	6.3	2.1	6	450	1	0.435	0.391	0.174	0.196	0.176	0.07
PSB336*006#0600	В	33	6.3	2.1	6	600	1	0.376	0.339	0.151	0.226	0.203	0.09
TPST336*006#0800	T	33	6.3	2.1	10	800	1	0.316	0.285	0.126	0.253	0.228	0.10
PSA476*006#0800	À	47	6.3	2.8	10	800	1	0.306	0.276	0.122	0.245	0.220	0.09
PSB476*006#0250	В	47	6.3	3	6	250	1	0.583	0.525	0.233	0.146	0.131	0.05
PSB476*006#0350	В	47	6.3	3	6	350	1	0.493	0.444	0.197	0.172	0.155	0.06
PSB476*006#0500	В	47	6.3	3	6	500	1	0.412	0.371	0.165	0.206	0.186	0.08
PSC476*006#0300	C	47	6.3	3	6	300	1	0.606	0.545	0.242	0.182	0.163	0.07
PST476*006#1200	Ť	47	6.3	2.8	10	1200	1	0.258	0.232	0.103	0.310	0.279	0.12
PSB686*006#0250	B	68	6.3	4.3	8	250	1	0.583	0.525	0.233	0.146	0.131	0.05
PSB686*006#0350	В	68	6.3	4.3	8	350	1	0.493	0.444	0.197	0.172	0.155	0.06
PSB686*006#0500	В	68	6.3	4.3	8	500	1	0.412	0.371	0.165	0.206	0.186	0.08
PSC686*006#0150	C	68	6.3	4.3	6	150	1	0.856	0.771	0.343	0.128	0.116	0.05
PSC686*006#0200	Č	68	6.3	4.3	6	200	1	0.742	0.667	0.297	0.148	0.133	0.05
PSW686*006#0110	W	68	6.3	4.3	6	110	1	0.905	0.814	0.362	0.099	0.090	0.04
PSW686*006#0125	W	68	6.3	4.3	6	125	1	0.849	0.764	0.339	0.106	0.095	0.04
PSW686*006#0250	W	68	6.3	4.3	6	250	1	0.600	0.540	0.240	0.150	0.135	0.06
PSB107*006#0250	В	100	6.3	6.3	10	250	1	0.583	0.525	0.233	0.146	0.131	0.05
PSB107*006#0400	В	100	6.3	6.3	10	400	1	0.461	0.415	0.184	0.140	0.166	0.07
PSC107*006#0075	C	100	6.3	6.3	6	75	1	1.211	1.090	0.484	0.091	0.082	0.03
PSC107*006#0150	Č	100	6.3	6.3	6	150	1	0.856	0.771	0.343	0.128	0.116	0.05
PSW107*006#0100	W	100	6.3	6.3	6	100	1	0.949	0.854	0.379	0.095	0.085	0.03
PSW107*006#0150	W	100	6.3	6.3	6	150	1	0.775	0.697	0.310	0.033	0.105	0.04
PSY107*006#0100	Y	100	6.3	6.3	6	100	1 ¹⁾	1.118	1.006	0.310	0.110	0.103	0.02
PSC157*006#0050	C	150	6.3	9.5	6	50	1	1.483	1.335	0.593	0.112	0.101	0.02
							1						
PSC157*006#0090 PSC157*006#0150	C	150 150	6.3	9.5 9.5	6	90	1	1.106	0.995	0.442	0.099 0.128	0.090	0.04
	C	150		9.5	6	200	1	0.856 0.742	_	0.343			0.05
PSC157*006#0200			6.3		6		1		0.667		0.148	0.133 0.149	
PSC157*006#0250	C D	150	6.3	9.5		250	1	0.663	0.597	0.265	0.166		0.06
PSD157*006#0050		150	6.3	9.5	6	50	_	1.732	1.559	0.693	0.087	0.078	0.03
PSD157*006#0125	D	150	6.3	9.5	6	125	1	1.095	0.986	0.438	0.137	0.123	0.05
PSY157*006#0040	Y	150	6.3	9.5	6	40	11)	1.768	1.591	0.707	0.071	0.064	0.02
PSY157*006#0050	Y	150	6.3	9.5	6	50	11)	1.581	1.423	0.632	0.079	0.071	0.03
PSC227*006#0070	C	220	6.3	13.9	8	70	1	1.254	1.128	0.501	0.088	0.079	0.03
PSC227*006#0100	C	220	6.3	13.9	8	100	1	1.049	0.944	0.420	0.105	0.094	0.04
PSC227*006#0125	C	220	6.3	13.9	8	125	1	0.938	0.844	0.375	0.117	0.106	0.04
PSC227*006#0250	C	220	6.3	13.9	8	250	1	0.663	0.597	0.265	0.166	0.149	0.06
PSD227*006#0050	D	220	6.3	13.9	8	50	1	1.732	1.559	0.693	0.087	0.078	0.03
PSD227*006#0100	D	220	6.3	13.9	8	100	1	1.225	1.102	0.490	0.122	0.110	0.04
PSD227*006#0125	D	220	6.3	13.9	8	125	1	1.095	0.986	0.438	0.137	0.123	0.05
PSE227*006#0100	Е	220	6.3	13.9	8	100	1 ¹⁾	1.285	1.156	0.514	0.128	0.116	0.05
PSF227*006#0200	F	220	6.3	13.2	10	200	1	0.707	0.636	0.283	0.141	0.127	0.05
PSY227*006#0100	Υ	220	6.3	13.9	10	100	11)	1.118	1.006	0.447	0.112	0.101	0.04
PSY227*006#0150	Υ	220	6.3	13.9	10	150	11)	0.913	0.822	0.365	0.137	0.123	0.05
PSC337*006#0080	С	330	6.3	19.8	12	80	1	1.173	1.055	0.469	0.094	0.084	0.03
PSC337*006#0100	С	330	6.3	19.8	12	100	1	1.049	0.944	0.420	0.105	0.094	0.04
PSD337*006#0045	D	330	6.3	20.8	8	45	1	1.826	1.643	0.730	0.082	0.074	0.03
PSD337*006#0050	D	330	6.3	20.8	8	50	1	1.732	1.559	0.693	0.087	0.078	0.03

^{1&}lt;sup>1)</sup> Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting.

For typical weight and composition see page 123.



Low ESR



RATINGS & PART NUMBER REFERENCE

AVX	Case	Conocitons	Rated	DCL	DF %	ESR Max. (mΩ)	MSL	100kH	Iz RMS Curr	ent (A)	100kH	z RMS Volta	ige (V)
Part No.	Size	Capacitance (µF)	Voltage (V)	(µA) Max.	Max.	@100kHz	MSL	25°C	85°C	125°C	25°C	85°C	125°C
TPSD337*006#0070	D	330	6.3	20.8	8	70	1	1.464	1.317	0.586	0.102	0.092	0.041
TPSD337*006#0100	D	330	6.3	20.8	8	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSE337*006#0050	E	330	6.3	20.8	8	50	11)	1.817	1.635	0.727	0.091	0.082	0.036
TPSE337*006#0100	E	330	6.3	20.8	8	100	1 ¹⁾	1.285	1.156	0.514	0.128	0.116	0.051
TPSE337*006#0125 TPSE337*006#0150	E	330 330	6.3	20.8	8	125	11)	1.149	1.034 0.944	0.460	0.144	0.129	0.057
TPSV337*006#0100	E V	330	6.3 6.3	20.8	8	150 100	11)	1.049 1.581	1.423	0.420 0.632	0.157 0.158	0.142 0.142	0.063
TPSY337*006#0100	Y	330	6.3	20.8	12	100	11)	1.118	1.006	0.632	0.136	0.142	0.065
TPSY337*006#0150	Y	330	6.3	20.8	12	150	11)	0.913	0.822	0.365	0.112	0.101	0.045
TPSD477*006#0045	D	470	6.3	29.6	12	45	1	1.826	1.643	0.730	0.082	0.074	0.033
TPSD477*006#0060	D	470	6.3	29.6	12	60	1	1.581	1.423	0.632	0.095	0.085	0.038
TPSD477*006#0100	D	470	6.3	29.6	12	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD477*006#0200	D	470	6.3	29.6	12	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSE477*006#0045	Е	470	6.3	29.6	10	45	1 ¹⁾	1.915	1.723	0.766	0.086	0.078	0.034
TPSE477*006#0050	Е	470	6.3	29.6	10	50	1 1)	1.817	1.635	0.727	0.091	0.082	0.036
TPSE477*006#0060	Е	470	6.3	29.6	10	60	1 ¹⁾	1.658	1.492	0.663	0.099	0.090	0.040
TPSE477*006#0100	Е	470	6.3	29.6	10	100	11)	1.285	1.156	0.514	0.128	0.116	0.051
TPSE477*006#0200	Е	470	6.3	29.6	10	200	11)	0.908	0.817	0.363	0.182	0.163	0.073
TPSV477*006#0040	V	470	6.3	29.6	10	40	11)	2.500	2.250	1.000	0.100	0.090	0.040
TPSV477*006#0055	V	470	6.3	29.6	10	55	11)	2.132	1.919	0.853	0.117	0.106	0.047
TPSV477*006#0100	V	470	6.3	29.6	10	100	11)	1.581	1.423	0.632	0.158	0.142	0.063
TPSY477*006#0150	Y	470	6.3	28.2	20	150	11)	0.913	0.822	0.365	0.137	0.123	0.055
TPSE687*006#0045	E	680	6.3	42.8	10	45	11)	1.915	1.723	0.766	0.086	0.078	0.034
TPSE687*006#0060	E	680	6.3	42.8	10	60	1 1)	1.658	1.492	0.663	0.099	0.090	0.040
TPSE687*006#0100	E	680	6.3	42.8	10	100	11)	1.285	1.156	0.514	0.128	0.116	0.051
TPSV687*006#0035	V	680	6.3	42.8	14	35	11)	2.673	2.405	1.069	0.094	0.084	0.037
TPSV687*006#0040	V	680	6.3	42.8	10	40	11)	2.500	2.250	1.000	0.100	0.090	0.040
TPSV687*006#0050	V	680	6.3	42.8	10	50	1 ¹⁾	2.236	2.012	0.894	0.112	0.101	0.045
TPSE108M006#0100 TPSV108M006#0040	E V	1000	6.3 6.3	60 60	20 16	100 40	11)	1.285 2.500	1.156 2.250	0.514 1.000	0.128	0.116 0.090	0.051
TPSV108M006#0040	V	1000	6.3	60	16	50	11)	2.236	2.230	0.894	0.100	0.101	0.040
1F3V100IVI000#0030	Į V	1000	0.3			@ 85°C (7			2.012	0.094	0.112	0.101	0.043
TPSR105*010#9000	R	1	10	0.5	4	9000	1	0.078	0.070	0.031	0.704	0.633	0.281
TPSA225*010#1800	A	2.2	10	0.5	6	1800	1	0.204	0.184	0.082	0.367	0.331	0.147
TPST335*010#1500	Ť	3.3	10	0.5	6	1500	1	0.231	0.208	0.092	0.346	0.312	0.139
TPSA475*010#1400	A	4.7	10	0.5	6	1400	1	0.231	0.208	0.093	0.324	0.292	0.130
TPSR475*010#3000	R	4.7	10	0.5	6	3000	1	0.135	0.122	0.054	0.406	0.366	0.162
TPSR475*010#5000	R	4.7	10	0.5	6	5000	1	0.105	0.094	0.042	0.524	0.472	0.210
TPSA685*010#1800	Α	6.8	10	0.7	6	1800	1	0.204	0.184	0.082	0.367	0.331	0.147
TPST685*010#1800	T	6.8	10	0.7	6	1800	1	0.211	0.190	0.084	0.379	0.342	0.152
TPSA106*010#0900	Α	10	10	1	6	900	1	0.289	0.260	0.115	0.260	0.234	0.104
TPSA106*010#1800	Α	10	10	1	6	1800	1	0.204	0.184	0.082	0.367	0.331	0.147
TPSP106M010#2000	Р	10	10	1	8	2000	1	0.173	0.156	0.069	0.346	0.312	0.139
TPSS106*010#0900	S	10	10	1	8	900	1	0.269	0.242	0.107	0.242	0.218	0.097
TPST106*010#1000	<u> </u>	10	10	1	6	1000	1	0.283	0.255	0.113	0.283	0.255	0.113
TPST106*010#2000	T	10	10	11	6	2000	1	0.200	0.180	0.080	0.400	0.360	0.160
TPSA156*010#1000 TPSB156*010#0450	A B	15 15	10 10	1.5 1.5	6	1000 450	1	0.274 0.435	0.246 0.391	0.110 0.174	0.274	0.246 0.176	0.110
TPSB156*010#0450	В	15	10	1.5	6	600	1	0.435	0.339	0.174	0.196	0.176	0.078
TPST156*010#0600	T	15	10	1.5	8	1200	1	0.258	0.339	0.103	0.226	0.203	0.090
TPSB226*010#0400	В	22	10	2.2	6	400	1	0.256	0.232	0.103	0.310	0.279	0.124
TPSB226*010#0500	В	22	10	2.2	6	500	1	0.412	0.413	0.165	0.104	0.186	0.074
TPSB226*010#0700	В	22	10	2.2	6	700	1	0.348	0.314	0.139	0.244	0.220	0.098
TPSC226*010#0300	C	22	10	2.2	6	300	1	0.606	0.545	0.242	0.182	0.163	0.073
TPST226*010#0800	T	22	10	2.2	8	800	1	0.316	0.285	0.126	0.253	0.228	0.101
TPSA336*010#0700	À	33	10	3.3	8	700	1	0.327	0.295	0.131	0.229	0.206	0.092
TPSB336*010#0250	В	33	10	3.3	6	250	1	0.583	0.525	0.233	0.146	0.131	0.058
TPSB336*010#0425	В	33	10	3.3	6	425	1	0.447	0.402	0.179	0.190	0.171	0.076
TPSB336*010#0500	В	33	10	3.3	6	500	1	0.412	0.371	0.165	0.206	0.186	0.082
TPSB336*010#0650	В	33	10	3.3	6	650	1	0.362	0.325	0.145	0.235	0.212	0.094
TPSC336*010#0150	С	33	10	3.3	6	150	1	0.856	0.771	0.343	0.128	0.116	0.051
TPSC336*010#0375	С	33	10	3.3	6	375	1	0.542	0.487	0.217	0.203	0.183	0.081
TPSC336*010#0500	С	33	10	3.3	6	500	1	0.469	0.422	0.188	0.235	0.211	0.094
TPSW336*010#0350	W	33	10	3.3	6	350	1	0.507	0.456	0.203	0.177	0.160	0.071
TPSB476*010#0250	В	47	10	4.7	8	250	1	0.583	0.525	0.233	0.146	0.131	0.058
	I D	47	10	4.7	8	350	1	0.493	0.444	0.197	0.172	0.155	0.069
TPSB476*010#0350	В												
TPSB476*010#0350 TPSB476*010#0500 TPSB476*010#0650	B B	47 47	10 10	4.7	8	500 650	1	0.412	0.371 0.325	0.165 0.145	0.206 0.235	0.186 0.212	0.082

¹ propack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting.

For typical weight and composition see page 123.



All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

Low ESR



RATINGS & PART NUMBER REFERENCE

AVX	Case	Capacitance	Rated	DCL	DF %	ESR Max. (mΩ)	MSL	100kH	Iz RMS Curr	ent (A)	100kH	z RMS Volta	ige (V)
Part No.	Size	(µF)	Voltage (V)	(μΑ) Max.	Max.	@100kHz	MSL	25°C	85°C	125°C	25°C	85°C	125°C
TPSC476*010#0200	С	47	10	4.7	6	200	1	0.742	0.667	0.297	0.148	0.133	0.059
TPSC476*010#0350	C	47	10	4.7	6	350	1	0.561	0.505	0.224	0.196	0.177	0.078
TPSD476*010#0100	D	47	10	4.7	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSW476*010#0125	W	47	10	4.7	6	125	1	0.849	0.764	0.339	0.106	0.095	0.042
TPSW476*010#0150 TPSW476*010#0250	W	47 47	10 10	4.7 4.7	6	150 250	1	0.775 0.600	0.697 0.540	0.310 0.240	0.116 0.150	0.105 0.135	0.046
TPSB686*010#0600	B	68	10	6.8	8	600	1	0.376	0.339	0.240	0.130	0.133	0.090
TPSC686*010#0080	C	68	10	6.8	6	80	1	1.173	1.055	0.469	0.094	0.203	0.038
TPSC686*010#0100	C	68	10	6.8	6	100	1	1.049	0.944	0.420	0.105	0.094	0.042
TPSC686*010#0200	Č	68	10	6.8	6	200	1	0.742	0.667	0.297	0.148	0.133	0.059
TPSC686*010#0300	Č	68	10	6.8	6	300	1	0.606	0.545	0.242	0.182	0.163	0.073
TPSD686*010#0100	D	68	10	6.8	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD686*010#0150	D	68	10	6.8	6	150	1	1.000	0.900	0.400	0.150	0.135	0.060
TPSY686*010#0100	Υ	68	10	6.8	6	100	1 ¹⁾	1.118	1.006	0.447	0.112	0.101	0.045
TPSY686*010#0200	Υ	68	10	6.8	6	200	11)	0.791	0.712	0.316	0.158	0.142	0.063
TPSW686*010#0100	W	68	10	6.8	6	100	1	0.949	0.854	0.379	0.095	0.085	0.038
TPSW686*010#0150	W	68	10	6.8	6	150	1	0.775	0.697	0.310	0.116	0.105	0.046
TPSB107M010#0400	В	100	10	10	8	400	1	0.461	0.415	0.184	0.184	0.166	0.074
TPSC107*010#0075	С	100	10	10	8	75	1	1.211	1.090	0.484	0.091	0.082	0.036
TPSC107*010#0100	С	100	10	10	8	100	1	1.049	0.944	0.420	0.105	0.094	0.042
TPSC107*010#0150	С	100	10	10	8	150	1	0.856	0.771	0.343	0.128	0.116	0.051
TPSC107*010#0200	C D	100	10 10	10	8	200 50	1	0.742	0.667	0.297	0.148	0.133	0.059
TPSD107*010#0050 TPSD107*010#0065	D	100	10	10	6	65	1	1.732 1.519	1.559 1.367	0.693 0.608	0.087	0.078	0.035
TPSD107 010#0005	D	100	10	10	6	80	1	1.369	1.232	0.548	0.099	0.009	0.039
TPSD107 010#0080	D	100	10	10	6	100	1	1.225	1.102	0.490	0.110	0.099	0.044
TPSD107*010#0125	D	100	10	10	6	125	1	1.095	0.986	0.438	0.122	0.110	0.049
TPSD107*010#0150	D	100	10	10	6	150	1	1.000	0.900	0.400	0.150	0.135	0.060
TPSE107*010#0125	E	100	10	10	6	125	11)	1.149	1.034	0.460	0.144	0.129	0.057
TPSW107*010#0150	W	100	10	10	6	150	1	0.775	0.697	0.310	0.116	0.105	0.046
TPSX107*010#0085	Х	100	10	10	8	85	1 ¹⁾	1.085	0.976	0.434	0.092	0.083	0.037
TPSX107*010#0150	Χ	100	10	10	8	150	1 ¹⁾	0.816	0.735	0.327	0.122	0.110	0.049
TPSX107*010#0200	Χ	100	10	10	8	200	11)	0.707	0.636	0.283	0.141	0.127	0.057
TPSY107*010#0100	Υ	100	10	10	6	100	11)	1.118	1.006	0.447	0.112	0.101	0.045
TPSY107*010#0150	Υ	100	10	10	6	150	11)	0.913	0.822	0.365	0.137	0.123	0.055
TPSY107*010#0200	Υ	100	10	10	6	200	11)	0.791	0.712	0.316	0.158	0.142	0.063
TPSC157*010#0150	С	150	10	15	8	150	1	0.856	0.771	0.343	0.128	0.116	0.051
TPSD157*010#0050	D	150	10	15	8	50	1	1.732	1.559	0.693	0.087	0.078	0.035
TPSD157*010#0085	D	150	10	15	8	85	1	1.328	1.196	0.531	0.113	0.102	0.045
TPSD157*010#0100	D	150	10	15	8	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSE157*010#0100 TPSF157*010#0200	<u>E</u> F	150 150	10 10	15 15	10	100 200	1 ¹⁾	1.285 0.707	1.156 0.636	0.514 0.283	0.128	0.116 0.127	0.051
TPSX157M010#0100	X	150	10	15	6	100	11)	1.000	0.030	0.400	0.141	0.127	0.037
TPSY157*010#0100	Y	150	10	15	6	100	11)	1.118	1.006	0.447	0.100	0.090	0.045
TPSY157*010#0150	Y	150	10	15	6	150	11)	0.913	0.822	0.365	0.112	0.101	0.055
TPSY157*010#0200	Y	150	10	15	6	200	11)	0.791	0.022	0.316	0.157	0.120	0.063
TPSD227*010#0050	Ď	220	10	22	8	50	1	1.732	1.559	0.693	0.087	0.078	0.035
TPSD227*010#0100	D	220	10	22	8	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD227*010#0150	D	220	10	22	8	150	1	1.000	0.900	0.400	0.150	0.135	0.060
TPSE227*010#0050	E	220	10	22	8	50	11)	1.817	1.635	0.727	0.091	0.082	0.036
TPSE227*010#0060	Е	220	10	22	8	60	1 ¹⁾	1.658	1.492	0.663	0.099	0.090	0.040
TPSE227*010#0070	Е	220	10	22	8	70	1 ¹⁾	1.535	1.382	0.614	0.107	0.097	0.043
TPSE227*010#0100	E	220	10	22	8	100	11)	1.285	1.156	0.514	0.128	0.116	0.051
TPSE227*010#0125	E	220	10	22	8	125	11)	1.149	1.034	0.460	0.144	0.129	0.057
TPSE227*010#0150	E	220	10	22	8	150	11)	1.049	0.944	0.420	0.157	0.142	0.063
TPSY227*010#0100	Y	220	10	22	10	100	11)	1.118	1.006	0.447	0.112	0.101	0.045
TPSY227*010#0150	Y	220	10	22	10	150	11)	0.913	0.822	0.365	0.137	0.123	0.055
TPSY227*010#0200	Y	220	10	22	10	200	11)	0.791	0.712	0.316	0.158	0.142	0.063
TPSD337*010#0050	D	330	10	33	8	50	1	1.732	1.559	0.693	0.087	0.078	0.035
TPSD337*010#0065 TPSD337*010#0100	D D	330	10	33	8	65	1	1.519	1.367	0.608	0.099	0.089	0.039
TPSD337*010#0100 TPSD337*010#0150	D	330 330	10 10	33 33	8	100 150	1	1.225 1.000	1.102 0.900	0.490	0.122 0.150	0.110 0.135	0.049
TPSE337*010#0150	E	330	10	33	8	40	11)	2.031	1.828	0.400	0.150	0.135	0.080
11 0001 010#0040	E	330	10	33	8	50	11)	1.817	1.635	0.727	0.081	0.073	0.032
TPSF337*010#0050					8		11)			0.663	0.091	0.002	0.030
TPSE337*010#0050	F	330	1 10	: <: <		l pu			1 447				
TPSE337*010#0060	E F	330 330	10	33		100		1.658 1.285	1.492				
	E E V	330 330 330	10 10 10	33	8	100	1 ¹⁾	1.285	1.492 1.156 2.250	0.514	0.128 0.100	0.116 0.090	0.051

 $^{1^{\}eta}$ Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting. For typical weight and composition see page 123.



Low ESR



RATINGS & PART NUMBER REFERENCE

AVO	0	0	Rated	DCL	DF	ESR Mary (mgO)	MC	100kH	Iz RMS Curr	ent (A)	100kH	z RMS Volta	ge (V)
AVX Part No.	Case Size	Capacitance (µF)	Voltage (V)	(µA) Max.	% Max.	Max. (mΩ) @100kHz	MSL	25°C	85°C	125°C	25°C	85°C	125°C
TPSV337*010#0100	V	330	10	33	10	100	11)	1.581	1.423	0.632	0.158	0.142	0.063
TPSE477*010#0045	Ė	470	10	47	10	45	11)	1.915	1.723	0.766	0.086	0.078	0.034
TPSE477*010#0050	E	470	10	47	10	50	1 ¹⁾	1.817	1.635	0.727	0.091	0.082	0.036
TPSE477*010#0060	Ē	470	10	47	10	60	1 ¹⁾	1.658	1.492	0.663	0.099	0.090	0.040
TPSE477*010#0100	Ē	470	10	47	10	100	11)	1.285	1.156	0.514	0.128	0.116	0.051
TPSE477*010#0200	Ē	470	10	47	10	200	11)	0.908	0.817	0.363	0.182	0.163	0.073
TPSV477*010#0040	V	470	10	47	10	40	1 1)	2.500	2.250	1.000	0.100	0.090	0.040
TPSV477*010#0060	V	470	10	47	10	60	11)	2.041	1.837	0.816	0.122	0.110	0.049
TPSV477*010#0100	V	470	10	47	10	100	11)	1.581	1.423	0.632	0.158	0.142	0.063
					Volt		-		11.20	0.002	0.100	011.12	0.000
TPSA225*016#1800	Α	2.2	16	0.5	6	1800	1 1	0.204	0.184	0.082	0.367	0.331	0.147
TPSA225*016#3500	A	2.2	16	0.5	6	3500	1	0.146	0.132	0.059	0.512	0.461	0.205
TPST225*016#2000	T	2.2	16	0.5	6	2000	1	0.200	0.180	0.080	0.400	0.360	0.160
TPSA335*016#3500	Ä	3.3	16	0.5	6	3500	1	0.146	0.132	0.059	0.512	0.461	0.205
TPSA475*016#2000	A	4.7	16	0.8	6	2000	1	0.194	0.174	0.077	0.387	0.349	0.155
TPSB475*016#0800	В	4.7	16	0.8	6	800	1	0.326	0.293	0.130	0.261	0.235	0.104
TPSB475*016#1500	В	4.7	16	0.8	6	1500	1	0.238	0.214	0.095	0.357	0.321	0.143
TPSA685*016#1500	A	6.8	16	1.1	6	1500	1	0.224	0.214	0.089	0.335	0.302	0.134
TPSB685*016#0600	В	6.8	16	1.1	6	600	1	0.224	0.339	0.003	0.226	0.203	0.090
TPSB685*016#1200	В	6.8	16	1.1	6	1200	1	0.266	0.240	0.106	0.220	0.287	0.128
TPSB106*016#0500	В	10	16	1.6	6	500	1	0.200	0.240	0.165	0.206	0.287	0.120
TPSB106*016#0800	В	10	16	1.6	6	800	1	0.326	0.293	0.130	0.261	0.186	0.104
TPSC106*016#0500	C	10	16	1.6	6	500	1	0.469	0.293	0.188	0.235	0.233	0.102
TPST106*016#0800	T	10	16	1.6	8	800	1	0.469	0.422	0.100	0.253	0.211	0.092
TPST106*016#1000	T	10	16	1.6	8	1000	1	0.283	0.255	0.120	0.233	0.255	0.10
TPSW106*016#0500	W	10	16	1.6	6	500	1	0.424	0.233	0.170	0.203	0.233	0.085
TPSW106*016#0600	W	10	16	1.6	6	600	1	0.424	0.362	0.170	0.212	0.191	0.093
TPSB156*016#0500	В	15	16	2.4	6	500	1	0.412	0.349	0.165	0.232	0.209	0.093
TPSB156*016#0800	В	15	16	2.4	6	800	1	0.412	0.293	0.130		0.100	0.002
					_						0.261		
TPSB226*016#0400 TPSB226*016#0600	B B	22	16 16	3.5	6	400	1	0.461	0.415	0.184	0.184	0.166	0.074
	C	22 22	16	3.5		600 150	1	0.376	0.339	0.151	0.226	0.203	0.090
TPSC226*016#0150					6	250	-	0.856	0.771	0.343	0.128	0.116	0.051
TPSC226*016#0250	C	22	16	3.5	6		1	0.663	0.597	0.265	0.166	0.149	0.066
TPSC226*016#0300	C	22	16	3.5	6	300	1	0.606	0.545 0.487	0.242	0.182	0.163	0.073
TPSC226*016#0375	W	22	16	3.5		375	1	0.542		0.217	0.203	0.183 0.191	0.081
TPSW226*016#0500		22	16	3.5	6	500	-	0.424	0.382	0.170	0.212		0.085
TPSB336*016#0350	В	33	16	5.3	8	350	1	0.493	0.444	0.197	0.172	0.155	0.069
TPSB336*016#0500	B C	33	16	5.3	8	500	_	0.412	0.371	0.165	0.206	0.186	0.082
TPSC336*016#0100		33	16	5.3	6	100	1	1.049	0.944	0.420	0.105	0.094	0.042
TPSC336*016#0150	С	33	16	5.3	6	150	1	0.856	0.771	0.343	0.128	0.116	0.05
TPSC336*016#0225	C	33	16	5.3	6	225	1	0.699	0.629	0.280	0.157	0.142	0.063
TPSC336*016#0300	С	33	16	5.3	6	300	1	0.606	0.545	0.242	0.182	0.163	0.073
TPSD336*016#0200	D	33	16	5.3	6	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSW336*016#0140	W	33	16	5.3	6	140	1	0.802	0.722	0.321	0.112	0.101	0.045
TPSW336*016#0175	W	33	16	5.3	6	175	1	0.717	0.645	0.287	0.125	0.113	0.050
TPSW336*016#0250	W	33	16	5.3	6	250	1	0.600	0.540	0.240	0.150	0.135	0.060
TPSW336*016#0400	W	33	16	5.3	6	400	1	0.474	0.427	0.190	0.190	0.171	0.076
TPSW336*016#0500	W	33	16	5.3	6	500	1	0.424	0.382	0.170	0.212	0.191	0.085
TPSY336*016#0300	Y	33	16	5.3	6	300	11)	0.645	0.581	0.258	0.194	0.174	0.077
TPSY336*016#0400	Y	33	16	5.3	6	400	11)	0.559	0.503	0.224	0.224	0.201	0.089
TPSC476*016#0110	C	47	16	7.5	6	110	1	1.000	0.900	0.400	0.110	0.099	0.044
TPSC476*016#0350	С	47	16	7.5	6	350	1	0.561	0.505	0.224	0.196	0.177	0.078
TPSD476*016#0080	D	47	16	7.5	6	80	1	1.369	1.232	0.548	0.110	0.099	0.044
TPSD476*016#0100	D	47	16	7.5	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD476*016#0150	D	47	16	7.5	6	150	1	1.000	0.900	0.400	0.150	0.135	0.060
TPSD476*016#0200	D	47	16	7.5	6	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSW476*016#0200	W	47	16	7.5	6	200	1	0.671	0.604	0.268	0.134	0.121	0.054
TPSX476*016#0180	Х	47	16	7.5	6	180	11)	0.745	0.671	0.298	0.134	0.121	0.054
TPSY476*016#0250	Υ	47	16	7.5	6	250	11)	0.707	0.636	0.283	0.177	0.159	0.07
TPSC686*016#0125	С	68	16	10.9	6	125	1	0.938	0.844	0.375	0.117	0.106	0.047
TPSC686*016#0200	С	68	16	10.9	6	200	1	0.742	0.667	0.297	0.148	0.133	0.059
TPSD686*016#0070	D	68	16	10.9	6	70	1	1.464	1.317	0.586	0.102	0.092	0.04
TPSD686*016#0100	D	68	16	10.9	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD686*016#0150	D	68	16	10.9	6	150	1	1.000	0.900	0.400	0.150	0.135	0.060
TPSF686*016#0200	F	68	16	10.9	10	200	1	0.707	0.636	0.283	0.141	0.127	0.057
TPSX686*016#0150	X	68	16	10.9	8	150	11)	0.816	0.735	0.327	0.122	0.110	0.049
TPSY686*016#0150	Y	68	16	10.9	6	150	11)	0.913	0.822	0.365	0.137	0.123	0.055

 $^{1^{\}eta}$ Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.



Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting. For typical weight and composition see page 123.

Low ESR



RATINGS & PART NUMBER REFERENCE

AVX	Case	Capacitance	Rated Voltage	DCL (μA)	DF %	ESR Max. (mΩ)	MSL	100kH	z RMS Curr	ent (A)	100kH	z RMS Volta	age (V)
Part No.	Size	Capacitance (μF)	(V)	(μΑ) Max.	Max.	@100kHz´		25°C	85°C	125°C	25°C	85°C	125°C
TPSY686*016#0200	Y	68	16	10.9	6	200	11)	0.791	0.712	0.316	0.158	0.142	0.063
TPSY686*016#0250	Y	68	16	10.9	6	250	1 ¹⁾	0.707	0.636	0.283	0.177	0.159	0.071
TPSC107*016#0200 TPSD107*016#0060	C D	100 100	16 16	16 16	6	200 60	1	0.742 1.581	0.667 1.423	0.297 0.632	0.148	0.133 0.085	0.059
TPSD107*016#0100	D	100	16	16	6	100	1	1.225	1.102	0.490	0.093	0.110	0.038
TPSD107*016#0125	D	100	16	16	6	125	1	1.095	0.986	0.438	0.137	0.123	0.055
TPSD107*016#0150	D	100	16	16	6	150	1	1.000	0.900	0.400	0.150	0.135	0.060
TPSE107*016#0055	Е	100	16	16	6	55	11)	1.732	1.559	0.693	0.095	0.086	0.038
TPSE107*016#0100	E	100	16	16	6	100	11)	1.285	1.156	0.514	0.128	0.116	0.051
TPSE107*016#0125	E	100	16	16	6	125	1 ¹⁾	1.149	1.034	0.460	0.144	0.129	0.057
TPSE107*016#0150 TPSF107M016#0150	E F	100 100	16 16	16 16	6 10	150 150	1 ¹⁾	1.049 0.816	0.944 0.735	0.420 0.327	0.157 0.122	0.142 0.110	0.063
TPSF107M016#0130	F	100	16	16	10	200	1	0.707	0.733	0.327	0.122	0.110	0.049
TPSY107*016#0100	Y	100	16	24	6	100	11)	1.118	1.006	0.447	0.112	0.101	0.045
TPSY107*016#0150	Y	100	16	16	8	150	1 1)	0.913	0.822	0.365	0.137	0.123	0.055
TPSY107*016#0200	Υ	100	16	16	8	200	11)	0.791	0.712	0.316	0.158	0.142	0.063
TPSD157*016#0060	D	150	16	24	6	60	1	1.581	1.423	0.632	0.095	0.085	0.038
TPSD157*016#0085	D	150	16	24	6	85	1	1.328	1.196	0.531	0.113	0.102	0.045
TPSD157*016#0100	D	150	16	24	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD157*016#0125	D	150	16 16	24 24	6	125	1	1.095	0.986	0.438	0.137	0.123	0.055
TPSD157*016#0150 TPSE157*016#0100	E	150 150	16	24	6	150 100	11)	1.000 1.285	0.900 1.156	0.400 0.514	0.150 0.128	0.135 0.116	0.060
TPSV157*016#0100	V	150	16	24	8	45	11)	2.357	2.121	0.514	0.128	0.116	0.031
TPSV157*016#0075	V	150	16	24	8	75	11)	1.826	1.643	0.730	0.100	0.093	0.042
TPSY157M016#0200	Ý	150	16	24	15	200	1 1)	0.791	0.712	0.316	0.158	0.142	0.063
TPSE227*016#0100	Е	220	16	35.2	10	100	1 ¹⁾	1.285	1.156	0.514	0.128	0.116	0.051
TPSE227*016#0150	Е	220	16	35.2	10	150	1 1)	1.049	0.944	0.420	0.157	0.142	0.063
TPSV227*016#0050	V	220	16	35.2	8	50	11)	2.236	2.012	0.894	0.112	0.101	0.045
TPSV227*016#0075	V	220	16	35.2	8	75	11)	1.826	1.643	0.730	0.137	0.123	0.055
TPSV227*016#0100	V	220	16	35.2	8	100	1 ¹⁾	1.581	1.423	0.632	0.158	0.142	0.063
TPSV227*016#0150 TPSE337M016#0200	E	220 330	16 16	35.2 52.8	30	150 200	11)	1.291 0.908	1.162 0.817	0.516 0.363	0.194 0.182	0.174 0.163	0.077
173E337 IVIU 10#U2UU		330	10		Volt				0.017	0.303	0.102	0.103	0.073
TPSA105*020#3000	Α	1	20	0.5	4	3000	1	0.158	0.142	0.063	0.474	0.427	0.190
TPSR105*020#6000	R	1	20	0.5	4	6000	1	0.096	0.086	0.038	0.574	0.517	0.230
TPSS105*020#6000	S	1	20	0.5	4	6000	1	0.104	0.094	0.042	0.624	0.562	0.250
TPST105*020#2000 TPSA225*020#3000	T	2.2	20 20	0.5	6	2000 3000	1	0.200	0.180 0.142	0.080	0.400	0.360 0.427	0.160
TPSA325 020#3000 TPSA335*020#2500	A	3.3	20	0.5	6	2500	1	0.158 0.173	0.142	0.069	0.474	0.427	0.190 0.173
TPSB335*020#1300	В	3.3	20	0.7	6	1300	1	0.256	0.130	0.102	0.332	0.299	0.173
TPSA475*020#1800	A	4.7	20	0.9	6	1800	1	0.204	0.184	0.082	0.367	0.331	0.147
TPSB475*020#0750	В	4.7	20	0.9	6	750	1	0.337	0.303	0.135	0.252	0.227	0.101
TPSB475*020#1000	В	4.7	20	0.9	6	1000	1	0.292	0.262	0.117	0.292	0.262	0.117
TPSA685*020#1000	A	6.8	20	1.4	6	1000	1	0.274	0.246	0.110	0.274	0.246	0.110
TPSB685*020#0600	В	6.8	20	1.4	6	600	1	0.376	0.339	0.151	0.226	0.203	0.090
TPSB685*020#1000	B	6.8 6.8	20 20	1.4 1.4	6	1000 700	1	0.292	0.262	0.117 0.159	0.292	0.262	0.117
TPSC685*020#0700 TPSB106*020#0500	В	10	20	2	6	500	1	0.396 0.412	0.357 0.371	0.165	0.277	0.250 0.186	0.111
TPSB106*020#0300	В	10	20	2	6	1000	1	0.412	0.262	0.103	0.200	0.160	0.002
TPSC106*020#0500	C	10	20	2	6	500	1	0.469	0.422	0.188	0.235	0.211	0.094
TPSC106*020#0700	С	10	20	2	6	700	1	0.396	0.357	0.159	0.277	0.250	0.111
TPSW106*020#0250	W	10	20	2	6	250	1	0.600	0.540	0.240	0.150	0.135	0.060
TPSW106*020#0500	W	10	20	2	6	500	1	0.424	0.382	0.170	0.212	0.191	0.850
TPSB156*020#0500	В	15	20	3	6	500	1	0.412	0.371	0.165	0.206	0.186	0.082
TPSC156*020#0400 TPSC156*020#0450	C	15 15	20 20	3	6	400 450	1	0.524 0.494	0.472 0.445	0.210 0.198	0.210	0.189	0.084
TPSB226*020#0450	В	22	20	4.4	6	400	1	0.494	0.445	0.198	0.222	0.200	0.089
TPSB226*020#0400	В	22	20	4.4	6	600	1	0.461	0.339	0.151	0.184	0.203	0.074
TPSC226*020#0000	C	22	20	4.4	6	100	1	1.049	0.944	0.420	0.105	0.203	0.030
TPSC226*020#0150	Č	22	20	4.4	6	150	1	0.856	0.771	0.343	0.128	0.116	0.051
TPSC226*020#0400	C	22	20	4.4	6	400	1	0.524	0.472	0.210	0.210	0.189	0.084
TPSD226*020#0200	D	22	20	4.4	6	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSD226*020#0300	D	22	20	4.4	6	300	1	0.707	0.636	0.283	0.212	0.191	0.085
TPSC336*020#0300	C	33	20	6.6	6	300	1	0.606	0.545	0.242	0.182	0.163	0.073
TPSD336*020#0100	D	33	20	6.6	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
													1 111160
TPSD336*020#0200	D	33	20	6.6	6	200		0.866	0.779	0.346	0.173	0.155	
	D D	47 47	20 20 20	9.4 9.4	6	75 100	1	1.414 1.225	1.273 1.102	0.566 0.490	0.173 0.106 0.122	0.133 0.095 0.110	0.042

 $^{1^{1}}$ Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting.

For typical weight and composition see page 123.



Low ESR



RATINGS & PART NUMBER REFERENCE

AVX	Ca=-	Conocitors	Rated	DCL	DF	ESR Max (m0)	MCI	100kH	Iz RMS Curr	ent (A)	100kH	z RMS Volta	ge (V)
Part No.	Case Size	Capacitance (µF)	Voltage (V)	(µA) Max.	% Max.	Max. (mΩ) @100kHz	MSL	25°C	85°C	125°C	25°C	85°C	125°C
TPSD476*020#0200	D	47	20	9.4	6	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSE476*020#0070	E	47	20	9.4	6	70	1 1)	1.535	1.382	0.614	0.107	0.097	0.043
TPSE476*020#0125	E	47	20	9.4	6	125	11)	1.149	1.034	0.460	0.144	0.129	0.057
TPSE476*020#0150	Ē	47	20	9.4	6	150	1 ¹⁾	1.049	0.944	0.420	0.157	0.142	0.063
TPSE476*020#0200	Ē	47	20	9.4	6	200	11)	0.908	0.817	0.363	0.182	0.163	0.073
TPSE476*020#0250	Ē	47	20	9.4	6	250	11)	0.812	0.731	0.325	0.203	0.183	0.081
TPSD686*020#0070	D	68	20	13.6	6	70	1	1.464	1.317	0.586	0.102	0.092	0.041
TPSD686*020#0150	D	68	20	13.6	6	150	1	1.000	0.900	0.400	0.150	0.135	0.060
TPSD686*020#0200	D	68	20	13.6	6	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSD686*020#0300	D	68	20	13.6	6	300	1	0.707	0.636	0.283	0.212	0.191	0.085
TPSE686*020#0125	E	68	20	13.6	6	125	11)	1.149	1.034	0.460	0.144	0.129	0.057
TPSE686*020#0150	Ē	68	20	13.6	6	150	11)	1.049	0.944	0.420	0.157	0.142	0.063
TPSE686*020#0200	Ē	68	20	13.6	6	200	11)	0.908	0.817	0.363	0.182	0.163	0.073
TPSD107*020#0085	D	100	20	20	6	85	1	1.328	1.196	0.531	0.113	0.102	0.045
TPSD107*020#0100	D	100	20	20	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD107*020#0150	D	100	20	20	6	150	1	1.000	0.900	0.400	0.122	0.135	0.060
TPSE107*020#0100	E	100	20	20	6	100	11)	1.285	1.156	0.514	0.130	0.116	0.051
TPSE107*020#0150	Ē	100	20	20	6	150	11)	1.049	0.944	0.420	0.120	0.142	0.063
TPSE107*020#0130	E	100	20	20	6	200	11)	0.908	0.944	0.420	0.137	0.142	0.003
TPSV107*020#0200	V	100	20	20	8	60	11)	2.041	1.837	0.816	0.102	0.103	0.073
TPSV107 020#0060 TPSV107*020#0085	V	100	20	20	8	85	11)	1.715	1.543	0.816	0.122	0.110	0.048
TPSV107 020#0085	V	100	20	20	8	100	11)	1.581	1.423	0.632	0.146	0.131	0.063
TPSV107 020#0100 TPSV107*020#0200	V	100	20	20	8	200	11)	1.118	1.423	0.632	0.158	0.142	0.089
TPSV107 020#0200 TPSV157*020#0080	V	150	20	30	8	80	11)	1.768	1.591	0.707		0.201	0.068
1P3V137 U2U#UU6U	V	130	20			<u>○∪</u> @ 85°C (17			1.091	0.707	0.141	0.127	0.057
TPSA474*025#7000	٨	0.47	25	0.5	4	7000	1 1	0.104	0.093	0.041	0.725	0.652	0.290
TPSA684*025#6000	A	0.47	25	0.5	4	6000	1		0.093	0.041		0.604	0.290
					4		'	0.112			0.671		
TPSR105*025#2500	R	1	25	0.5	_	2500	1	0.148	0.133	0.059	0.371	0.334	0.148
TPSR105*025#4000	R	1	25	0.5	4	4000	1	0.117	0.106	0.047	0.469	0.422	0.188
TPSA155*025#3000	<u>A</u>	1.5	25	0.5	6	3000	1	0.158	0.142	0.063	0.474	0.427	0.190
TPSB155*025#1800	В	1.5	25	0.5	6	1800	- '	0.217	0.196	0.087	0.391	0.352	0.156
TPSB225*025#0900	В	2.2	25	0.6	6	900	1	0.307	0.277	0.123	0.277	0.249	0.11
TPSB225*025#1200	В	2.2	25	0.6	6	1200	1	0.266	0.240	0.106	0.319	0.287	0.128
TPSB225*025#2500	<u>B</u>	2.2	25	0.6	6	2500	1	0.184	0.166	0.074	0.461	0.415	0.184
TPSA335*025#1000	A	3.3	25	0.8	6	1000	1	0.274	0.246	0.110	0.274	0.246	0.110
TPSA335*025#1500	A	3.3	25	0.8	6	1500	1	0.224	0.201	0.089	0.335	0.302	0.134
TPSB335*025#0750	В	3.3	25	0.8	6	750	1	0.337	0.303	0.135	0.252	0.227	0.10
TPSB335*025#1500	В	3.3	25	0.8	6	1500	1	0.238	0.214	0.095	0.357	0.321	0.143
TPSB335*025#2000	В	3.3	25	0.8	6	2000	1	0.206	0.186	0.082	0.412	0.371	0.165
TPSB475*025#0700	В	4.7	25	1.2	6	700	1	0.348	0.314	0.139	0.244	0.220	0.098
TPSB475*025#0900	В	4.7	25	1.2	6	900	1	0.307	0.277	0.123	0.277	0.249	0.11
TPSB475*025#1500	В	4.7	25	1.2	6	1500	1	0.238	0.214	0.095	0.357	0.321	0.143
TPSB685*025#0700	В	6.8	25	1.7	6	700	1	0.348	0.314	0.139	0.244	0.220	0.098
TPSC685*025#0500	С	6.8	25	1.7	6	500	1	0.469	0.422	0.188	0.235	0.211	0.09
TPSC685*025#0600	С	6.8	25	1.7	6	600	1	0.428	0.385	0.171	0.257	0.231	0.10
TPSC685*025#0700	С	6.8	25	1.7	6	700	1	0.396	0.357	0.159	0.277	0.250	0.11
TPSB106*025#1800	В	10	25	2.5	6	1800	1	0.217	0.196	0.087	0.391	0.352	0.15
TPSC106*025#0300	С	10	25	2.5	6	300	1	0.606	0.545	0.242	0.182	0.163	0.073
TPSC106*025#0500	С	10	25	2.5	6	500	1	0.469	0.422	0.188	0.235	0.211	0.094
TPSC156*025#0220	С	15	25	3.8	6	220	1	0.707	0.636	0.283	0.156	0.140	0.06
TPSC156*025#0300	С	15	25	3.8	6	300	1	0.606	0.545	0.242	0.182	0.163	0.07
TPSD156*025#0100	D	15	25	3.8	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD156*025#0300	D	15	25	3.8	6	300	1	0.707	0.636	0.283	0.212	0.191	0.08
TPSC226*025#0275	С	22	25	5.5	6	275	1	0.632	0.569	0.253	0.174	0.157	0.070
TPSC226*025#0400	С	22	25	5.5	6	400	1	0.524	0.472	0.210	0.210	0.189	0.08
TPSD226*025#0100	D	22	25	5.5	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD226*025#0200	D	22	25	5.5	6	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSD226*025#0300	D	22	25	5.5	6	300	1	0.707	0.636	0.283	0.212	0.191	0.08
TPSD336*025#0100	D	33	25	8.3	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD336*025#0200	D	33	25	8.3	6	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSD336*025#0300	D	33	25	8.3	6	300	1	0.707	0.636	0.283	0.212	0.191	0.08
TPSE336*025#0100	E	33	25	8.3	6	100	11)	1.285	1.156	0.514	0.128	0.116	0.05
1595330 029#0100	E	33	25	8.3	6	175	11)	0.971	0.874	0.388	0.170	0.113	0.06
			20										
TPSE336*025#0175		33	25	8.3	6	1 200	101	() 908	()81/	()(363	1 () 182	L 0.163	()()/'-
TPSE336*025#0175 TPSE336*025#0200	Е	33	25 25	8.3	6	200	1 ¹⁾	0.908	0.817	0.363	0.182	0.163	
TPSE336*025#0175		33 33 33	25 25 25	8.3 8.3 8.3	6 6 6	300 200	1" 1" 1"	0.908 0.742 0.791	0.817 0.667 0.712	0.363 0.297 0.316	0.182 0.222 0.158	0.163 0.200 0.142	0.073 0.089 0.063

 $^{1^{\}eta}$ Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.



Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting. For typical weight and composition see page 123.

Low ESR



RATINGS & PART NUMBER REFERENCE

ALCY	0	O	Rated	DCL	DF	ESR May (mg)	NAC:	100kH	Iz RMS Curre	ent (A)	100kH	z RMS Volta	ge (V)
AVX Part No.	Case Size	Capacitance (µF)	Voltage (V)	(μΑ) Max.	% Max.	Max. (mΩ) @100kHz	MSL	25°C	85°C	125°C	25°C	85°C	125°C
TPSD476*025#0150	D	47	25	11.8	6	150	1	1.000	0.900	0.400	0.150	0.135	0.060
TPSD476*025#0250	D	47	25	11.8	6	250	1	0.775	0.697	0.310	0.194	0.174	0.077
TPSE476*025#0080	Е	47	25	11.8	6	80	1 ¹⁾	1.436	1.293	0.574	0.115	0.103	0.046
TPSE476*025#0100	Е	47	25	11.8	6	100	1 ¹⁾	1.285	1.156	0.514	0.128	0.116	0.051
TPSE476*025#0125	Е	47	25	11.8	6	125	11)	1.149	1.034	0.460	0.144	0.129	0.057
TPSE686*025#0125	Е	68	25	17	6	125	11)	1.149	1.034	0.460	0.144	0.129	0.057
TPSE686*025#0200	Е	68	25	17	6	200	11)	0.908	0.817	0.363	0.182	0.163	0.073
TPSV686*025#0080	V	68	25	17	6	80	1 ¹⁾	1.768	1.591	0.707	0.141	0.127	0.057
TPSV686*025#0095	V	68	25	17	6	95	11)	1.622	1.460	0.649	0.154	0.139	0.062
TPSV686*025#0150	V	68	25	17	6	150	11)	1.291	1.162	0.516	0.194	0.174	0.077
TPSV686*025#0200	V	68	25	17	6	200	11)	1.118	1.006	0.447	0.224	0.201	0.089
TPSE107M025#0150	Е	100	25	25	10	150	1 ¹⁾	1.049	0.944	0.420	0.157	0.142	0.063
TPSV107*025#0100	V	100	25	25	8	100	11)	1.581	1.423	0.632	0.158	0.142	0.063
TD0 4 00 4+005 #0000	•	0.00	0.5			@ 85°C (23	Volt @		0.404	0.045	1 0 074	0.004	0.000
TPSA224*035#6000	Α	0.22	35	0.5	4	6000	1	0.112	0.101	0.045	0.671	0.604	0.268
TPSA334*035#6000	A	0.33	35	0.5	4	6000	1	0.112	0.101	0.045	0.671	0.604	0.268
TPSA474*035#6000	A	0.47	35	0.5	4	6000	1	0.112	0.101	0.045	0.671	0.604	0.268
TPSB474*035#4000	В	0.47	35	0.5	4	4000	1	0.146	0.131	0.058	0.583	0.525	0.233
TPSA684*035#6000	A	0.68	35	0.5	4	6000	1	0.112	0.101	0.045	0.671	0.604	0.268
TPSA105*035#3000	A	1	35	0.5	4	3000	1	0.158	0.142	0.063	0.474	0.427	0.190
TPSB105*035#2000	В	1	35	0.5	4	2000	1	0.206	0.186	0.082	0.412	0.371	0.165
TPSB155*035#2500	В	1.5	35	0.5	6	2500	1	0.184	0.166	0.074	0.461	0.415	0.184
TPSA225*035#1500	A	2.2	35	0.8	6	1500	1	0.224	0.201	0.089	0.335	0.302	0.134
TPSB225*035#0750	В	2.2	35	0.8	6	750	1	0.337	0.303	0.135	0.252	0.227	0.101
TPSB225*035#1500	В	2.2	35	0.8	6	1500	1	0.238	0.214	0.095	0.357 0.412	0.321	0.143
TPSB225*035#2000	B C	2.2	35 35	0.8	6	2000	1	0.206	0.186	0.082		0.371	0.165
TPSC225*035#1000 TPSB335*035#1000	В	2.2	35			1000	1	0.332	0.298	0.133	0.332	0.298	0.133
	С	3.3 3.3	35	1.2	6	700	1		0.262	0.117		0.262	0.117
TPSC335*035#0700	В					700	1	0.396	0.357	0.159	0.277	0.250	0.111
TPSB475*035#0700 TPSB475*035#1500	В	4.7 4.7	35 35	1.6 1.6	6	1500	1	0.348 0.238	0.314 0.214	0.139 0.095	0.244	0.220 0.321	
TPSC475*035#0600	С	4.7	35	1.6	6	600	1	0.428	0.214	0.093	0.337	0.321	0.143
TPSD475*035#0700	D	4.7	35	1.6	6	700	1	0.428	0.363	0.171	0.237	0.292	0.103
TPSC685*035#0350	C	6.8	35	2.4	6	350	1	0.463	0.505	0.165	0.324	0.292	0.130
TPSD685*035#0150	D	6.8	35	2.4	6	150	1	1.000	0.900	0.400	0.150	0.177	0.060
TPSD685*035#0400	D	6.8	35	2.4	6	400	1	0.612	0.551	0.245	0.130	0.220	0.000
TPSD685*035#0500	D	6.8	35	2.4	6	500	1	0.548	0.493	0.219	0.274	0.246	0.110
TPSD106*035#0125	D	10	35	3.5	6	125	1	1.095	0.986	0.438	0.137	0.123	0.055
TPSD106*035#0300	D	10	35	3.5	6	300	1	0.707	0.636	0.283	0.212	0.191	0.085
TPSE106*035#0200	E	10	35	3.5	6	200	11)	0.908	0.817	0.363	0.182	0.163	0.073
TPSY106*035#0250	Y	10	35	3.5	6	250	11)	0.707	0.636	0.283	0.177	0.159	0.071
TPSC156*035#0350	Ċ	15	35	5.3	6	350	1	0.561	0.505	0.224	0.196	0.177	0.078
TPSC156*035#0450	C	15	35	5.3	6	450	1	0.494	0.445	0.198	0.222	0.200	0.089
TPSD156*035#0100	D	15	35	5.3	6	100	1	1.225	1.102	0.490	0.122	0.110	0.049
TPSD156*035#0300	D	15	35	5.3	6	300	1	0.707	0.636	0.283	0.212	0.191	0.085
TPSY156*035#0250	Y	15	35	5.3	6	250	11)	0.707	0.636	0.283	0.177	0.159	0.071
TPSD226*035#0125	D	22	35	7.7	6	125	1	1.095	0.986	0.438	0.137	0.123	0.055
TPSD226*035#0200	D	22	35	7.7	6	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSD226*035#0300	D	22	35	7.7	6	300	1	0.707	0.636	0.283	0.212	0.191	0.085
TPSD226*035#0400	D	22	35	7.7	6	400	1	0.612	0.551	0.245	0.245	0.220	0.098
TPSE226*035#0125	Ē	22	35	7.7	6	125	1 ¹⁾	1.149	1.034	0.460	0.144	0.129	0.057
TPSE226*035#0200	Ē	22	35	7.7	6	200	11)	0.908	0.817	0.363	0.182	0.163	0.073
TPSE226*035#0300	E	22	35	7.7	6	300	11)	0.742	0.667	0.297	0.222	0.200	0.089
TPSY226*035#0200	Y	22	35	7.7	6	200	11)	0.791	0.712	0.316	0.158	0.142	0.063
TPSD336*035#0200	D	33	35	11.6	6	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSD336*035#0300	D	33	35	11.6	6	300	1	0.707	0.636	0.283	0.212	0.191	0.085
TPSE336*035#0100	Ē	33	35	11.6	6	100	11)	1.285	1.156	0.514	0.128	0.116	0.051
TPSE336*035#0250	E	33	35	11.6	6	250	11)	0.812	0.731	0.325	0.203	0.183	0.081
TPSE336*035#0300	Ē	33	35	11.6	6	300	11)	0.742	0.667	0.297	0.222	0.200	0.089
TPSV336*035#0200	V	33	35	11.6	6	200	11)	1.118	1.006	0.447	0.224	0.201	0.089
TPSE476*035#0200	Ě	47	35	16.5	6	200	11)	0.908	0.817	0.363	0.182	0.163	0.073
TPSE476*035#0250	Ē	47	35	16.5	6	250	11)	0.812	0.731	0.325	0.203	0.183	0.081
TPSV476*035#0150	V	47	35	16.5	6	150	11)	1.291	1.162	0.516	0.194	0.174	0.077
	V	47	35	16.5	6	200	11)	1.118	1.006	0.447	0.224	0.201	0.089
1PSV4/6"(135#U)UU								1.110	1.000	U. FT1	J U.LLT	0.201	0.000
TPSV476*035#0200 TPSV686*035#0150	V	68	35	23.8	6	150	11)	1.291	1.162	0.516	0.194	0.174	0.077

 $^{1^{\}eta}$ Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.



All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

The EIA & CECC standards for low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting.

For typical weight and composition see page 123.





RATINGS & PART NUMBER REFERENCE

			Rated	DCL	DF	ESR		100kF	Iz RMS Curr	ent (A)	100kH	z RMS Volta	ige (V)
AVX Part No.	Case	Capacitance (µF)	Voltage (V)	(μΑ) Max.	% Max.	Max. (mΩ) @100kHz	MSL	25°C	85°C	125°C	25°C	85°C	125°C
				50	Volt (@ 85°C (33	Volt @	125°C)	•	•	•	•	
TPSA154*050#9000	Α	0.15	50	0.5	4	9000	1	0.091	0.082	0.037	0.822	0.739	0.329
TPSA224*050#7000	Α	0.22	50	0.5	4	7000	1	0.104	0.093	0.041	0.725	0.652	0.290
TPSC474*050#2300	С	0.47	50	0.5	4	2300	1	0.219	0.197	0.087	0.503	0.453	0.201
TPSC105*050#2500	С	1	50	0.5	4	2500	1	0.210	0.189	0.084	0.524	0.472	0.210
TPSC155*050#1500	С	1.5	50	0.8	6	1500	1	0.271	0.244	0.108	0.406	0.366	0.162
TPSC155*050#2000	С	1.5	50	0.8	6	2000	1	0.235	0.211	0.094	0.469	0.422	0.188
TPSD225*050#1200	D	2.2	50	1.1	6	1200	1	0.354	0.318	0.141	0.424	0.382	0.170
TPSD335*050#0800	D	3.3	50	1.7	6	800	1	0.433	0.390	0.173	0.346	0.312	0.139
TPSD475*050#0300	D	4.7	50	2.4	6	300	1	0.707	0.636	0.283	0.212	0.191	0.085
TPSD475*050#0500	D	4.7	50	2.4	6	500	1	0.548	0.493	0.219	0.274	0.246	0.110
TPSD475*050#0700	D	4.7	50	2.4	6	700	1	0.463	0.417	0.185	0.324	0.292	0.130
TPSD685*050#0200	D	6.8	50	3.4	6	200	1	0.866	0.779	0.346	0.173	0.156	0.069
TPSD685*050#0300	D	6.8	50	3.4	6	300	1	0.707	0.636	0.283	0.212	0.191	0.085
TPSD685*050#0500	D	6.8	50	3.4	6	500	1	0.548	0.493	0.219	0.274	0.246	0.110
TPSD685*050#0600	D	6.8	50	3.4	6	600	1	0.500	0.450	0.200	0.300	0.270	0.120
TPSE106*050#0250	E	10	50	5	6	250	11)	0.812	0.731	0.325	0.203	0.183	0.081
TPSE106*050#0300	Е	10	50	5	6	300	11)	0.742	0.667	0.297	0.222	0.200	0.089
TPSE106*050#0400	E	10	50	5	6	400	11)	0.642	0.578	0.257	0.257	0.231	0.103
TPSE106*050#0500	E	10	50	5	6	500	11)	0.574	0.517	0.230	0.287	0.259	0.115
TPSE156*050#0250	Е	15	50	7.5	6	250	1 ¹⁾	0.812	0.731	0.325	0.203	0.183	0.081
TPSV156*050#0250	V	15	50	7.5	6	250	11)	1.000	0.900	0.400	0.250	0.225	0.100

^{1&}lt;sup>1)</sup> Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 3.

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