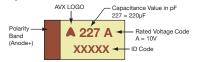
#### **Low ESR**



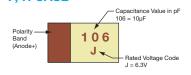


#### **MARKING**

A, B, C, D, E, F, S, T, V, W, X, Y CASE



#### P, R CASE



#### **FEATURES**

• Low ESR series of robust MnO<sub>2</sub> solid electrolyte capacitors

• CV range: 0.15-1500µF / 2.5-50V

- 14 case sizes available
- Power supply applications

# LEAD-FREE





SnPb termination option is not RoHS compliant.

#### **APPLICATIONS**

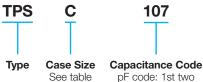
• General medium power DC/DC convertors

#### **CASE DIMENSIONS:** millimeters (inches)

Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W <sub>1</sub> ±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
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 o	nly.	

#### **HOW TO ORDER**

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

016 = 16 Vdc020 = 20 Vdc

**Rated DC Voltage** 002 = 2.5Vdc 004 = 4Vdc 006 = 6.3 Vdc010 = 10 Vdc

025 = 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  $m\Omega$ 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 <sub>R</sub> )	≤ +85°C:	2.5	4	6.3	10	16	20	25	35	50	
Category Voltage (V <sub>C</sub> )	≤ +125°C:	1.7	2.7	4	7	10	13	17	23	33	
Surge Voltage (V <sub>S</sub> )	≤ +85°C:	3.3	5.2	8	13	20	26	32	46	65	T
Surge Voltage (V <sub>S</sub> )	≤ +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 <sub>R</sub> v	with $0.1\Omega$	√ series	impedanc	e,		
	60% confidence level										
Termination Finished:	Sn Plating (standard), Gold and SnPb Plating upon request										
		For A	AEC-Q20	0 availabil	ity, please	e contact	AVX				





#### **CAPACITANCE AND RATED VOLTAGE RANGE** (LETTER DENOTES CASE SIZE)

Capa	citance	<u></u>				/oltage DC (V <sub>R</sub> ) 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) A(6000)	A(7000) A(6500), B(6000)
0.47	474							A(7000)	B(4000)	C(2300)
0.68	684							A(6000)	A(6000)	B(4000)
1.0	105				R(9000)	A(6200)	A(3000), R(6000) S(6000), T(2000)	A(4000) R(2500,4000)	A(3000) B(2000)	B(3000) C(2500)
1.5	155						A(3000)	A(3000) B(1800)	A(3000) B(2500)	C(1500,2000)
2.2	225			R(7000)	A(1800)	A(1800,3500) T(2000)	A(3000), B(1700)	A(2500) B(900,1200,2500)	A(1500), B(750, 1500,2000), C(1000)	C(1500) D(1200)
3.3	335			A(2100)	T(1500)	A(3500), B(2500)	A(2500) B(1300)	A(1000,1500) B(750,1500,2000)	B(1000) C(700)	C(1000) D(800)
4.7	475			S(4000)	A(1400), B(1400) R(3000,5000)	A(2000) B(800,1500)	A(1800) B(750,1000)	B(700,900,1500) C(700)	B(700,1500) C(600), D(700)	C(800) D(250,300, 500,700)
6.8	685			A(1800)	A(1800), B(1300) 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), B(1500) R(1000,1500,3000) T(1000)	A(900,1800), B(1000) P(2000)M, S(900) T(1000,2000)	A(1000), 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(500)	C(600) D(125,300) E(200), Y(250)	D(500) E(250,300, 400,500)
15	156			A(700,1500)	A(1000) B(450,600), C(700) T(1200)	B(500,800) C(300,700)	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) C(500), S(900)	A(900) B(400,500,700) C(300), T(800)	B(400,600) C(150,250,300,375) D(700), 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)	C(400) 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(100,300) 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) X(200)	D(125,150,250) E(80,100,125) (Y250)	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) Y(200)	D(150,200,300) 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), D(300) W(100,150) Y(100)	B(400) <sup>M</sup> 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) <sup>M</sup> Y(100,150,200)	D(85,100,150) E(100,150,200) V(60,85,100,200)	E(150), 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) <sup>M</sup> Y(100,150,200)	D(60,85,100,125,150) E(100), V(45,75) Y(200) <sup>M</sup>	V(80)	V(150) <sup>™</sup>		
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(75,100,150)	D(50,65,100,150) E(40,50,60,100) V(40,60,100)	E(200) <sup>M</sup>				
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) <sup>M</sup>	E(40,60) V(25,35,40,50)	E(100) <sup>M</sup> , V(40,50) <sup>M</sup>						
1500	158	D(100) E(50) V(30,40)M	E(50,75) V(50,75) <sup>M</sup>							

XXVX

Not recommended for new designs, higher voltage or smaller case size substitution are offered.

Released codes (M tolerance only)

76

Engineering samples - please contact manufacturer

\*Codes under development - subject to change

ESR limits quoted in brackets (milliohms)







AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR	MOI	100kHz	z RMS Cur	rent (A)
Part No.	Size	(μ <b>F</b> )	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C
		I.	(-)	( )	$\overline{}$	t @ 85°C	TTT COLUMN		0 100112				
TPSB107*002#0200	В	100	2.5	85	1.7	125	2.5	8	200	1	0.652	0.587	0.261
TPSB157*002#0150	В	150	2.5	85	1.7	125	3	10	150	1	0.753	0.677	0.301
TPSB227*002#0150	В	220	2.5	85	1.7	125	4.4	16	150	1	0.753	0.677	0.301
TPSB227*002#0200	В	220	2.5	85	1.7	125	4.4	16	200	1	0.652	0.587	0.261
TPSB227*002#0600	В	220	2.5	85	1.7	125	4.4	16	600	1	0.376	0.339	0.151
TPSD227*002#0045 TPSY337*002#0040	D Y	220 330	2.5 2.5	85 85	1.7	125 125	5.5 8.2	8	45 40	1 1 <sup>1)</sup>	1.826	1.643 1.591	0.730
TPSD477*002#0040	D	470	2.5	85	1.7	125	11.6	8	35	1	2.070	1.863	0.707
TPSF477*002#0200	F	470	2.5	85	1.7	125	11.8	12	200	1	0.707	0.636	0.283
TPSY477*002#0100	Y	470	2.5	85	1.7	125	11	12	100	11)	1.118	1.006	0.447
TPSD687*002#0035	D	680	2.5	85	1.7	125	17	16	35	1	2.070	1.863	0.828
TPSD687*002#0050	D	680	2.5	85	1.7	125	17	16	50	1	1.732	1.559	0.693
TPSE687*002#0035	E	680	2.5	85	1.7	125	17	10	35	11)	2.171	1.954	0.868
TPSE687*002#0050	E	680	2.5	85	1.7	125	17	10	50	11)	1.817	1.635	0.727
TPSY687*002#0100	Y	680	2.5	85	1.7	125	17	12	100	11)	1.118	1.006	0.447
TPSE108*002#0030	E	1000	2.5	85	1.7	125	25	14	30	11)	2.345	2.111	0.938
TPSE108*002#0040	E	1000	2.5	85	1.7	125	25	14	40	1 <sup>1)</sup>	2.031	1.828	0.812
TPSY108M002#0100 TPSD158*002#0100	Y D	1000 1500	2.5 2.5	85 85	1.7	125 125	25 37.5	30 60	100	1"	1.118	1.006 1.102	0.447
TPSE158*002#0050	E	1500	2.5	85	1.7	125	37.5	20	50	1 <sup>1)</sup>	1.123	1.635	0.490
TPSV158M002#0030	V	1500	2.5	85	1.7	125	30	20	30	11)	2.887	2.598	1.155
TPSV158M002#0040	V	1500	2.5	85	1.7	125	30	20	40	11)	2.500	2.250	1.000
11 0 1 100111002110040		1000	2.0			@ 85°C	00	20	10	'	2.000	2.200	1.000
TPSR106*004#3000	R	10	4	85	2.7	125	0.5	6	3000	1	0.135	0.122	0.054
TPSA476*004#0500	Α	47	4	85	2.7	125	1.9	8	500	1	0.387	0.349	0.155
TPSB107*004#0200	В	100	4	85	2.7	125	4	8	200	1	0.652	0.587	0.261
TPSB107*004#0250	В	100	4	85	2.7	125	4	8	250	1	0.583	0.525	0.233
TPSB107*004#0350	В	100	4	85	2.7	125	4	8	350	1	0.493	0.444	0.197
TPSB107*004#0500	В	100	4	85	2.7	125	4	8	500	1	0.412	0.371	0.165
TPSW107*004#0100	W	100	4	85	2.7	125	4	6	100	1	0.949	0.854	0.379
TPSB157*004#0250	В	150	4	85	2.7	125	6	10	250	1	0.583	0.525	0.233
TPSC157*004#0070	С	150	4	85	2.7	125	6	6	70	1	1.254	1.128	0.501
TPSC157*004#0080	C D	150 220	4	85 85	2.7	125	6 8.8	6 8	80 40	1	1.173	1.055 1.743	0.469
TPSD227*004#0040 TPSD227*004#0050	D	220	4	85	2.7	125 125	8.8	8	50	1	1.936	1.559	0.775
TPSD227*004#0100	D	220	4	85	2.7	125	8.8	8	100	1	1.732	1.102	0.693
TPSY227*004#0100	Y	220	4	85	2.7	125	8.8	8	40	11)	1.768	1.591	0.490
TPSY227*004#0050	Y	220	4	85	2.7	125	8.8	8	50	1 1)	1.581	1.423	0.632
TPSY227*004#0075	Y	220	4	85	2.7	125	8.8	8	75	11)	1.291	1.162	0.516
TPSC337*004#0100	Ċ	330	4	85	2.7	125	13.2	8	100	1	1.049	0.944	0.420
TPSD337*004#0035	D	330	4	85	2.7	125	13.2	8	35	1	2.070	1.863	0.828
TPSD337*004#0045	D	330	4	85	2.7	125	13.2	8	45	1	1.826	1.643	0.730
TPSD337*004#0100	D	330	4	85	2.7	125	13.2	8	100	1	1.225	1.102	0.490
TPSF337*004#0200	F	330	4	85	2.7	125	13.2	10	200	1	0.707	0.636	0.283
TPSX337*004#0100	X	330	4	85	2.7	125	13.2	8	100	11)	1.000	0.900	0.400
TPSD477*004#0045	D	470	4	85	2.7	125	18.8	12	45	1	1.826	1.643	0.730
TPSD477*004#0100	<u>D</u>	470	4	85	2.7	125	18.8	12	100	1	1.225	1.102	0.490
TPSE477*004#0035 TPSE477*004#0045	E E	470 470	4	85 85	2.7	125 125	18.8 18.8	10 10	35 45	1 <sup>1)</sup>	2.171 1.915	1.954 1.723	0.868
TPSE477 004#0045 TPSE477*004#0100	E	470	4	85	2.7	125	18.8	10	100	11)	1.285	1.156	0.766
TPSD687*004#0100	D	680	4	85	2.7	125	27.2	14	45	1	1.826	1.643	0.730
TPSD687*004#0043	D	680	4	85	2.7	125	27.2	14	60	1	1.581	1.423	0.632
TPSD687*004#0100	D	680	4	85	2.7	125	27.2	14	100	1	1.225	1.102	0.490
TPSE687*004#0040	E	680	4	85	2.7	125	27.2	10	40	1 <sup>1)</sup>	2.031	1.828	0.812
TPSE687*004#0060	Ε	680	4	85	2.7	125	27.2	10	60	11)	1.658	1.492	0.663
TPSE687*004#0100	Е	680	4	85	2.7	125	27.2	10	100	1 <sup>1)</sup>	1.285	1.156	0.514
TPSE108*004#0040	Е	1000	4	85	2.7	125	40	14	40	1 <sup>1)</sup>	2.031	1.828	0.812
TPSE108*004#0060	Е	1000	4	85	2.7	125	40	14	60	11)	1.658	1.492	0.663
TPSV108*004#0025	V	1000	4	85	2.7	125	40	16	25	1 <sup>1)</sup>	3.162	2.846	1.265
TPSV108*004#0035	V	1000	4	85	2.7	125	40	16	35	11)	2.673	2.405	1.069
TPSV108*004#0040	V	1000	4	85	2.7	125	40	16	40	11)	2.500	2.250	1.000
TPSV108*004#0050	V	1000	4	85	2.7	125	40	16	50	1 <sup>1)</sup>	2.236	2.012	0.894
TPSE158*004#0050 TPSE158*004#0075	E	1500 1500	4	85 85	2.7	125 125	60 60	30	50 75	1 <sup>1)</sup>	1.817	1.635 1.335	0.727
TPSV158M004#0075	V	1500	4	85	2.7	125	60	30	50	11)	2.236	2.012	0.894
TPSV158M004#0075	V	1500	4	85	2.7	125	60	30	75	11)	1.826	1.643	0.730
	V	1000	-	00			00	00	10		1.020	1.040	0.700
11 3 1 1 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1					ტ.პ Vი	T @ 85 C							
TPSR225*006#7000	R	2.2	6.3	85	4	lt <b>@ 85°C</b> 125	0.5	6	7000	1	0.089	0.080	0.035
	R A S	2.2 3.3	6.3 6.3	85 85			0.5 0.5	6	7000 2100	1	0.089 0.189 0.127	0.080 0.170	0.035 0.076 0.051

### **Low ESR**



AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR		100kH:	z RMS Cur	rent (A)
Part No.	Size	(μF)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C
TPSA685*006#1800	Α	6.8	6.3	85	4	125	0.5	6	1800	1	0.204	0.184	0.082
TPSA106*006#1500	Α	10	6.3	85	4	125	0.6	6	1500	1	0.224	0.201	0.089
TPSB106*006#1500	В	10	6.3	85	4	125 125	0.6	6 8	1500	1	0.238	0.214	0.095
TPSR106*006#1000 TPSR106*006#1500	R	10	6.3 6.3	85 85	4	125	0.6	8	1500	1	0.235	0.211	0.094
TPSR106*006#3000	R	10	6.3	85	4	125	0.6	8	3000	1	0.135	0.172	0.054
TPST106*006#1000	T	10	6.3	85	4	125	0.6	6	1000	1	0.283	0.255	0.113
TPSA156*006#0700	Α	15	6.3	85	4	125	0.9	6	700	1	0.327	0.295	0.131
TPSA156*006#1500	A	15	6.3	85	4	125	0.9	6	1500	1	0.224	0.201	0.089
TPSA226*006#0500 TPSA226*006#0900	A	22 22	6.3 6.3	85 85	4	125 125	1.4	6	500 900	1	0.387	0.349	0.155
TPSB226*006#0375	B	22	6.3	85	4	125	1.4	6	375	1	0.476	0.428	0.113
TPSB226*006#0600	В	22	6.3	85	4	125	1.4	6	600	1	0.376	0.339	0.151
TPSC226*006#0500	C	22	6.3	85	4	125	1.4	6	500	1	0.469	0.422	0.188
TPSS226*006#0900	S	22	6.3	85	4	125	1.3	10	900	1	0.269	0.242	0.107
TPSA336*006#0600 TPSB336*006#0250	B	33 33	6.3 6.3	85 85	4	125 125	2.1	8	600 250	1	0.354	0.318	0.141
TPSB336*006#0350	В	33	6.3	85	4	125	2.1	6	350	1	0.493	0.444	0.197
TPSB336*006#0450	В	33	6.3	85	4	125	2.1	6	450	1	0.435	0.391	0.174
TPSB336*006#0600	В	33	6.3	85	4	125	2.1	6	600	1	0.376	0.339	0.151
TPST336*006#0800	T	33	6.3	85	4	125	2.1	10	800	1	0.316	0.285	0.126
TPSA476*006#0800 TPSB476*006#0250	A B	47 47	6.3 6.3	85 85	4	125 125	2.8	10	800 250	1	0.306	0.276	0.122
TPSB476 006#0250 TPSB476*006#0350	В	47	6.3	85	4	125	3	6	350	1	0.383	0.525	0.233
TPSB476*006#0500	В	47	6.3	85	4	125	3	6	500	1	0.412	0.371	0.165
TPSC476*006#0300	С	47	6.3	85	4	125	3	6	300	1	0.606	0.545	0.242
TPST476*006#1200	T	47	6.3	85	4	125	2.8	10	1200	1	0.258	0.232	0.103
TPSB686*006#0250	B	68 68	6.3	85	4	125	4	8	250	1	0.583	0.525	0.233
TPSB686*006#0350 TPSB686*006#0500	В	68	6.3 6.3	85 85	4	125 125	4	8	350 500	1	0.493	0.444	0.197
TPSC686*006#0150	C	68	6.3	85	4	125	4.3	6	150	1	0.856	0.771	0.343
TPSC686*006#0200	C	68	6.3	85	4	125	4.3	6	200	1	0.742	0.667	0.297
TPSW686*006#0110	W	68	6.3	85	4	125	4.3	6	110	1	0.905	0.814	0.362
TPSW686*006#0125	W	68	6.3	85	4	125	4.3	6	125	1	0.849	0.764	0.339
TPSW686*006#0250 TPSB107*006#0250	B	68 100	6.3 6.3	85 85	4	125 125	4.3 6.3	6 10	250 250	1	0.600	0.540	0.240
TPSB107*006#0230	В	100	6.3	85	4	125	6.3	10	400	1	0.461	0.415	0.233
TPSC107*006#0075	C	100	6.3	85	4	125	6.3	6	75	1	1.211	1.090	0.484
TPSC107*006#0150	С	100	6.3	85	4	125	6.3	6	150	1	0.856	0.771	0.343
TPSD107*006#0300	D	100	6.3	85	4	125	6.3	6	300	1	0.707	0.636	0.283
TPSW107*006#0100 TPSW107*006#0150	W	100	6.3 6.3	85 85	4	125 125	6.3 6.3	6	100	1	0.949	0.854	0.379
TPSY107*006#0100	Y	100	6.3	85	4	125	6.3	6	100	11)	1.118	1.006	0.447
TPSC157*006#0050	Ċ	150	6.3	85	4	125	9.5	6	50	1	1.483	1.335	0.593
TPSC157*006#0090	С	150	6.3	85	4	125	9.5	6	90	1	1.106	0.995	0.442
TPSC157*006#0150	C	150	6.3	85	4	125	9.5	6	150	1	0.856	0.771	0.343
TPSC157*006#0200 TPSC157*006#0250	C	150 150	6.3 6.3	85 85	4	125 125	9.5 9.5	6	200 250	1	0.742	0.667	0.297
TPSD157*006#0250	D	150	6.3	85	4	125	9.5	6	50	1	1.732	1.559	0.203
TPSD157*006#0125	D	150	6.3	85	4	125	9.5	6	125	_ 1	1.095	0.986	0.438
TPSY157*006#0040	Υ	150	6.3	85	4	125	9.5	6	40	1 <sup>1)</sup>	1.768	1.591	0.707
TPSY157*006#0050	Y	150	6.3	85	4	125	9.5	6	50	1 <sup>1)</sup>	1.581	1.423	0.632
TPSC227*006#0070 TPSC227*006#0100	C	220 220	6.3 6.3	85 85	4	125 125	13.9 13.9	8	70 100	1	1.254	1.128 0.944	0.501
TPSC227*006#0100	C	220	6.3	85	4	125	13.9	8	125	1	0.938	0.844	0.420
TPSC227*006#0250	C	220	6.3	85	4	125	13.9	8	250	1	0.663	0.597	0.265
TPSD227*006#0050	D	220	6.3	85	4	125	13.9	8	50	1	1.732	1.559	0.693
TPSD227*006#0100	D	220	6.3	85	4	125	13.9	8	100	1	1.225	1.102	0.490
TPSD227*006#0125	D	220	6.3	85	4	125	13.9	8	125	1 1 <sup>1)</sup>	1.095	0.986	0.438
TPSE227*006#0100 TPSF227*006#0200	E F	220 220	6.3 6.3	85 85	4	125 125	13.9	8 10	100	1"	0.707	1.156 0.636	0.514
TPSY227*006#0100	Y	220	6.3	85	4	125	13.9	8	100	11)	1.118	1.006	0.263
TPSY227*006#0150	Υ	220	6.3	85	4	125	13.9	8	150	1 <sup>1)</sup>	0.913	0.822	0.365
TPSC337*006#0080	C	330	6.3	85	4	125	19.8	12	80	11	1.173	1.055	0.469
TPSC337*006#0100	C	330	6.3	85	4	125	19.8	12	100	1	1.049	0.944	0.420
TPSD337*006#0045 TPSD337*006#0050	D	330 330	6.3 6.3	85 85	4	125 125	20.8	8	45 50	1	1.826	1.643	0.730
TPSD337*006#0030	D	330	6.3	85	4	125	20.8	8	70	1	1.732	1.317	0.586
TPSD337*006#0100	D	330	6.3	85	4	125	20.8	8	100	1	1.225	1.102	0.490
										1.45			
TPSE337*006#0050 TPSE337*006#0100	E	330 330	6.3 6.3	85 85	4	125 125	20.8	8	50 100	1 <sup>1)</sup>	1.817	1.635	0.727





AVX	Case	Capacitance	Rated Voltage	Rated Temperature	Category	Category	DCL	DF %	ESR Max. (mΩ)	MSL		z RMS Cur	rent (A)
Part No.	Size	΄ (μ <b>F</b> )	(V)	(°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	Max.	@ 100kHz	IVIOL	25°C	85°C	125°C
TPSE337*006#0125	Е	330	6.3	85	4	125	20.8	8	125	1 <sup>1)</sup>	1.149	1.034	0.460
TPSE337*006#0150	Е	330	6.3	85	4	125	20.8	8	150	11)	1.049	0.944	0.420
TPSV337*006#0100	V	330	6.3	85	4	125	20.8	8	100	11)	1.581	1.423	0.632
TPSY337*006#0075	Y	330	6.3	85	4	125	20.8	12	75	1 <sup>1)</sup>	1.291	1.162	0.516
TPSY337*006#0100	Y	330	6.3	85	4	125	20.8	12 12	100	1 <sup>1)</sup>	1.118	1.006	0.447
TPSY337*006#0150	D	330 470	6.3	85	4	125 125	20.8 28	12	150 45	1"	0.913	0.822	0.365
TPSD477*006#0045 TPSD477*006#0060	D	470	6.3	85 85	4	125	28	12	60	1	1.581	1.643 1.423	0.730
TPSD477*006#0100	D	470	6.3	85	4	125	28	12	100	1	1.225	1.102	0.632
TPSD477*006#0200	D	470	6.3	85	4	125	28	12	200	1	0.866	0.779	0.430
TPSE477*006#0045	Ē	470	6.3	85	4	125	28	10	45	11)	1.915	1.723	0.766
TPSE477*006#0050	E	470	6.3	85	4	125	28	10	50	11)	1.817	1.635	0.727
TPSE477*006#0060	E	470	6.3	85	4	125	28	10	60	11)	1.658	1.492	0.663
TPSE477*006#0100	Е	470	6.3	85	4	125	28	10	100	11)	1.285	1.156	0.514
TPSE477*006#0200	Е	470	6.3	85	4	125	28	10	200	1 <sup>1)</sup>	0.908	0.817	0.363
TPSV477*006#0040	V	470	6.3	85	4	125	28	10	40	1 <sup>1)</sup>	2.500	2.250	1.000
TPSV477*006#0055	V	470	6.3	85	4	125	28	10	55	11)	2.132	1.919	0.853
TPSV477*006#0100	V	470	6.3	85	4	125	28	10	100	11)	1.581	1.423	0.632
TPSY477*006#0150	Y	470	6,3	85	4	125	28.2	20	150	11)	0.913	0.822	0.365
TPSE687*006#0045	E	680	6.3	85	4	125	42.8	10	45	11)	1.915	1.723	0.766
TPSE687*006#0060	E	680	6.3	85	4	125	42.8	10	60	11)	1.658	1.492	0.663
TPSE687*006#0100	E	680	6.3	85	4	125	42.8	10	100	11)	1.285	1.156	0.514
TPSV687*006#0035	V	680	6.3	85	4	125	42.8	14	35	1 <sup>1)</sup>	2.673	2.405	1.069
TPSV687*006#0040	V	680	6.3	85	4	125	42.8	10	40 50	11)	2.500	2.250	1.000
TPSV687*006#0050 TPSE108M006#0100	E	680 1000	6.3	85 85	4	125 125	42.8 60	10	100	11)	2.236	1.156	0.894
TPSV108M006#0100	V	1000	6.3	85	4	125	60	16	40	11)	2.500	2.250	1.000
TPSV108M006#0040	V	1000	6.3	85	4	125	60	16	50	11)	2.236	2.012	0.894
11 OV 1001V1000#0000	, v	1000	0.0			t @ 85°C	00	10	00		2.200	2.012	0.004
TPSR105*010#9000	R	1	10	85	7	125	0.5	4	9000	1	0.078	0.070	0.031
TPSA225*010#1800	Α	2.2	10	85	7	125	0.5	6	1800	1	0.204	0.184	0.082
TPST335*010#1500	Т	3.3	10	85	7	125	0.5	6	1500	1	0.231	0.208	0.092
TPSA475*010#1400	Α	4.7	10	85	7	125	0.5	6	1400	1	0.231	0.208	0.093
TPSB475*010#1400	В	4.7	10	85	7	125	0.5	6	1400	1	0.246	0.222	0.099
TPSR475*010#3000	R	4.7	10	85	7	125	0.5	6	3000	1	0.135	0.122	0.054
TPSR475*010#5000	R	4.7	10	85	7	125	0.5	6	5000	1	0.105	0.094	0.042
TPSA685*010#1800	A	6.8	10	85	7	125	0.7	6	1800	1	0.204	0.184	0.082
TPSB685*010#1300	В	6.8	10	85	7	125	0.7	6	1300	4	0.256	0.230	0.102
TPST685*010#1800	T	6.8	10	85	7	125	0.7	6	1800	1	0.211	0.190	0.084
TPSA106*010#0900 TPSA106*010#1800	A	10	10 10	85 85	7	125 125	1	6	900 1800	1	0.289	0.260	0.115
TPSB106*010#1000	В	10	10	85	7	125	1	6	1000	1	0.204	0.164	0.062
TPSP106M010#2000	Р	10	10	85	7	125	1	8	2000	1	0.292	0.202	0.069
TPSS106*010#0900	S	10	10	85	7	125	1	8	900	1	0.269	0.130	0.107
TPST106*010#1000	T	10	10	85	7	125	1	6	1000	1	0.283	0.255	0.113
TPST106*010#2000	Ť	10	10	85	7	125	1	6	2000	1	0.200	0.180	0.080
TPSA156*010#1000	A	15	10	85	7	125	1.5	6	1000	1	0.274	0.246	0.110
TPSB156*010#0450	В	15	10	85	7	125	1.5	6	450	1	0.435	0.391	0.174
TPSB156*010#0600	В	15	10	85	7	125	1.5	6	600	1	0.376	0.339	0.151
TPSC156*010#0700	С	15	10	85	7	125	1.5	6	700	1	0.396	0.357	0.159
TPST156*010#1200	Т	15	10	85	7	125	1.5	8	1200	1	0.258	0.232	0.103
TPSA226*010#0900	Α	22	10	85	7	125	2.2	8	900	1	0.289	0.260	0.115
TPSB226*010#0400	В	22	10	85	7	125	2.2	6	400	11	0.461	0.415	0.184
TPSB226*010#0500	В	22	10	85	7	125	2.2	6	500	1	0.412	0.371	0.165
TPSB226*010#0700	В	22	10	85	7	125	2.2	6	700	11	0.348	0.314	0.139
TPSC226*010#0300	C	22	10	85	7	125	2.2	6	300	1	0.606	0.545	0.242
TPST226*010#0800	T	22	10	85	7	125	2.2	8	800	1	0.316	0.285	0.126
TPSA336*010#0700 TPSB336*010#0250	A B	33 33	10 10	85 85	7	125 125	3.3 3.3	8 6	700 250	1	0.327	0.295	0.131
TPSB336*010#0250 TPSB336*010#0425	В	33	10	85	7	125	3.3	6	425	1	0.583	0.525	0.233
TPSB336*010#0425	В	33	10	85	7	125	3.3	6	500	1	0.447	0.402	0.179
TPSB336*010#0650	В	33	10	85	7	125	3.3	6	650	1	0.362	0.325	0.145
TPSC336*010#0150	C	33	10	85	7	125	3.3	6	150	1	0.856	0.771	0.343
TPSC336*010#0375	C	33	10	85	7	125	3.3	6	375	1	0.542	0.487	0.217
TPSC336*010#0500	C	33	10	85	7	125	3.3	6	500	1	0.469	0.422	0.188
TPSW336*010#0350	W	33	10	85	7	125	3.3	6	350	1	0.507	0.456	0.203
TPSB476*010#0250	В	47	10	85	7	125	4.7	8	250	1	0.583	0.525	0.233
TPSB476*010#0350	В	47	10	85	7	125	4.7	8	350	1	0.493	0.444	0.197
TPSB476*010#0500	В	47	10	85	7	125	4.7	8	500	1	0.412	0.371	0.165
TPSB476*010#0650	В	47	10	85	7	125	4.7	8	650	1	0.362	0.325	0.145
TPSC476*010#0200	С	47	10 10	85	7	125	4.7	6	200	1	0.742	0.667	0.297
TPSC476*010#0350	С	47		85	7	125	4.7	6	350	1	0.561	0.505	0.224





AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR		100kHz	z RMS Cur	rent (A)
Part No.	Size	(μF)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C
TPSD476*010#0100	D	47	10	85	7	125	4.7	6	100	1	1.225	1.102	0.490
TPSD476*010#0300 TPSW476*010#0125	D W	47 47	10	85	7	125 125	4.7	6	300	1	0.707	0.636	0.283
TPSW476*010#0125	W	47	10	85 85	7	125	4.7	6	125 150	1	0.849	0.764	0.339
TPSW476*010#0250	W	47	10	85	7	125	4.7	6	250	1	0.600	0.540	0.240
TPSB686*010#0600	В	68	10	85	7	125	6.8	8	600	1	0.376	0.339	0.151
TPSC686*010#0080	С	68	10	85	7	125	6.8	6	80	1	1.173	1.055	0.469
TPSC686*010#0100	C	68	10	85	7	125	6.8	6	100	1	1.049	0.944	0.420
TPSC686*010#0200 TPSC686*010#0300	C	68 68	10	85 85	7	125 125	6.8 6.8	6	200 300	1	0.742	0.667 0.545	0.297
TPSD686*010#0100	D	68	10	85	7	125	6.8	6	100	1	1.225	1.102	0.490
TPSD686*010#0150	D	68	10	85	7	125	6.8	6	150	1	1.000	0.900	0.400
TPSY686*010#0100	Υ	68	10	85	7	125	6.8	6	100	11)	1.118	1.006	0.447
TPSY686*010#0200	Y	68	10	85	7	125	6.8	6	200	11)	0.791	0.712	0.316
TPSW686*010#0100 TPSW686*010#0150	W	68 68	10	85 85	7	125 125	6.8 6.8	6	100 150	1	0.949	0.854	0.379
TPSB107M010#0400	В	100	10	85	7	125	10	8	400	1	0.461	0.415	0.184
TPSC107*010#0075	С	100	10	85	7	125	10	8	75	1	1.211	1.090	0.484
TPSC107*010#0100	С	100	10	85	7	125	10	8	100	1	1.049	0.944	0.420
TPSC107*010#0150	С	100	10	85	7	125	10	8	150	1	0.856	0.771	0.343
TPSC107*010#0200 TPSD107*010#0050	C D	100 100	10 10	85 85	7	125 125	10 10	8	200 50	1	1.732	0.667 1.559	0.297
TPSD107*010#0050	D	100	10	85	7	125	10	6	65	1	1.732	1.367	0.608
TPSD107*010#0080	D	100	10	85	7	125	10	6	80	1	1.369	1.232	0.548
TPSD107*010#0100	D	100	10	85	7	125	10	6	100	1	1.225	1.102	0.490
TPSD107*010#0125	D	100	10	85	7	125	10	6	125	1	1.095	0.986	0.438
TPSD107*010#0150	D E	100	10 10	85 85	7	125 125	10 10	6	150 125	1 1 <sup>1)</sup>	1.000	0.900	0.400
TPSE107*010#0125 TPSW107*010#0150	W	100	10	85	7	125	10	6	150	1	1.149 0.775	1.034 0.697	0.460
TPSX107*010#0085	X	100	10	85	7	125	10	8	85	11)	1.085	0.976	0.434
TPSX107*010#0150	Χ	100	10	85	7	125	10	8	150	11)	0.816	0.735	0.327
TPSX107*010#0200	Χ	100	10	85	7	125	10	8	200	11)	0.707	0.636	0.283
TPSY107*010#0100	Y	100	10	85	7	125	10	6	100	11)	1.118	1.006	0.447
TPSY107*010#0150 TPSY107*010#0200	Y	100	10	85 85	7	125 125	10	6	150 200	1 <sup>1)</sup>	0.913	0.822	0.365
TPSC157*010#0150	C	150	10	85	7	125	15	8	150	1	0.791	0.712	0.343
TPSD157*010#0050	D	150	10	85	7	125	15	8	50	1	1.732	1.559	0.693
TPSD157*010#0085	D	150	10	85	7	125	15	8	85	1	1.328	1.196	0.531
TPSD157*010#0100	D	150	10	85	7	125	15	8	100	1	1.225	1.102	0.490
TPSE157*010#0100 TPSF157*010#0200	E F	150 150	10	85 85	7	125 125	15 15	8 10	100 200	1 <sup>1)</sup>	1.285 0.707	1.156 0.636	0.514
TPSX157M010#0100	X	150	10	85	7	125	15	6	100	11)	1.000	0.030	0.400
TPSY157*010#0100	Y	150	10	85	7	125	15	6	100	11)	1.118	1.006	0.447
TPSY157*010#0150	Υ	150	10	85	7	125	15	6	150	11)	0.913	0.822	0.365
TPSY157*010#0200	Υ	150	10	85	7	125	15	6	200	11)	0.791	0.712	0.316
TPSD227*010#0040	D	220 220	10	85	7	125	22 22	8	40	1	1.936	1.743	0.775
TPSD227*010#0050 TPSD227*010#0100	D	220	10	85 85	7	125 125	22	8	50 100	1	1.732	1.559	0.693
TPSD227*010#0150	D	220	10	85	7	125	22	8	150	1	1.000	0.900	0.400
TPSE227*010#0050	E	220	10	85	7	125	22	8	50	11)	1.817	1.635	0.727
TPSE227*010#0060	E	220	10	85	7	125	22	8	60	11)	1.658	1.492	0.663
TPSE227*010#0070 TPSE227*010#0100	E	220 220	10	85 85	7	125 125	22 22	8	70 100	1 <sup>1)</sup>	1.535 1.285	1.382	0.614
TPSE227*010#0100 TPSE227*010#0125	E	220	10	85	7	125	22	8	125	11)	1.149	1.156 1.034	0.514
TPSE227*010#0150	E	220	10	85	7	125	22	8	150	11)	1.049	0.944	0.420
TPSY227*010#0100	Υ	220	10	85	7	125	22	10	100	<b>1</b> 1)	1.118	1.006	0.447
TPSY227*010#0150	Y	220	10	85	7	125	22	10	150	11)	0.913	0.822	0.365
TPSY227*010#0200	Y	220	10	85	7	125	22	10	200	11)	0.791	0.712	0.316
TPSD337*010#0050 TPSD337*010#0065	D D	330 330	10	85 85	7	125 125	33 33	8	50 65	1	1.732	1.559 1.367	0.693
TPSD337*010#0003	D	330	10	85	7	125	33	8	100	1	1.225	1.102	0.490
TPSD337*010#0150	D	330	10	85	7	125	33	8	150	1	1.000	0.900	0.400
TPSE337*010#0040	E	330	10	85	7	125	33	8	40	11)	2.031	1.828	0.812
TPSE337*010#0050	E	330	10	85	7	125	33	8	50	11)	1.817	1.635	0.727
TPSE337*010#0060 TPSE337*010#0100	E	330 330	10	85 85	7	125 125	33 33	8	60 100	1 <sup>1)</sup>	1.658	1.492 1.156	0.663
TPSV337*010#0040	V	330	10	85	7	125	33	10	40	11)	2.500	2.250	1.000
TPSV337*010#0060	V	330	10	85	7	125	33	10	60	11)	2.041	1.837	0.816
TPSV337*010#0100	V	330	10	85	7	125	33	10	100	11)	1.581	1.423	0.632
TPSE477*010#0045	E	470	10	85	7	125	47	10	45	1 <sup>1)</sup>	1.915	1.723	0.766
TPSE477*010#0050	E	470	10	85	7	125	47	10	50	11)	1.817	1.635	0.727





AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR	1401	100kHz	z RMS Cur	rent (A)
Part No.	Size	(μ <b>F</b> )	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C
TPSE477*010#0060	Е	470	10	85	7	125	47	10	60	11)	1.658	1.492	0.663
TPSE477*010#0100	E	470	10	85	7	125	47	10	100	11)	1.285	1.156	0.514
TPSE477*010#0200 TPSV477*010#0040	E V	470 470	10	85 85	7	125 125	47 47	10 10	200 40	1 <sup>1)</sup>	0.908	0.817	0.363
TPSV477*010#0040	V	470	10	85	7	125	47	10	60	11)	2.500	2.250 1.837	1.000 0.816
TPSV477*010#0100	V	470	10	85	7	125	47	10	100	<b>1</b> <sup>1)</sup>	1.581	1.423	0.632
11 01 111 010 100		1.0			16 Vol	t @ 85°C			1.00	·	11001	11120	0.002
TPSA105*016#6200	Α	1	16	85	10	125	0.5	4	6200	1	0.110	0.099	0.044
TPSA225*016#1800	A	2.2	16	85	10	125	0.5	6	1800	1	0.204	0.184	0.082
TPSA225*016#3500 TPST225*016#2000	A	2.2	16 16	85 85	10	125 125	0.5 0.5	6	3500 2000	1	0.146	0.132	0.059
TPSA335*016#3500	A	3.3	16	85	10	125	0.5	6	3500	1	0.200	0.132	0.059
TPSB335*016#2500	В	3.3	16	85	10	125	0.5	6	2500	1	0.184	0.166	0.074
TPSA475*016#2000	Α	4.7	16	85	10	125	0.8	6	2000	1	0.194	0.174	0.077
TPSB475*016#0800	В	4.7	16	85	10	125	0.8	6	800	1	0.326	0.293	0.130
TPSB475*016#1500 TPSA685*016#1500	B A	4.7 6.8	16 16	85 85	10	125 125	0.8 1.1	6	1500 1500	1	0.238	0.214	0.095
TPSB685*016#0600	В	6.8	16	85	10	125	1.1	6	600	1	0.224	0.201	0.069
TPSB685*016#1200	В	6.8	16	85	10	125	1.1	6	1200	1	0.266	0.240	0.106
TPSA106*016#1000	A	10	16	85	10	125	1.6	6	1000	1	0.274	0.246	0.110
TPSB106*016#0500	В	10	16	85	10	125	1.6	6	500	1	0.412	0.371	0.165
TPSB106*016#0800	В	10	16	85	10	125	1.6	6	800	1	0.326	0.293	0.130
TPSC106*016#0500 TPST106*016#0800	C	10	16 16	85 85	10	125 125	1.6 1.6	6 8	500 800	1	0.469	0.422	0.188
TPST106*016#0800	T	10	16	85	10	125	1.6	8	1000	1	0.316	0.285	0.126
TPSW106*016#0500	W	10	16	85	10	125	1.6	6	500	1	0.424	0.382	0.170
TPSW106*016#0600	W	10	16	85	10	125	1.6	6	600	1	0.387	0.349	0.155
TPSB156*016#0500	В	15	16	85	10	125	2.4	6	500	1	0.412	0.371	0.165
TPSB156*016#0800	В	15	16	85	10	125	2.4	6	800	1	0.326	0.293	0.130
TPSC156*016#0300	C	15	16	85	10	125	2.4	6	300	1	0.606	0.545	0.242
TPSC156*016#0700 TPSB226*016#0400	В	15 22	16 16	85 85	10	125 125	2.4 3.5	6	700 400	1	0.396	0.357	0.159
TPSB226*016#0600	В	22	16	85	10	125	3.5	6	600	1	0.376	0.339	0.151
TPSC226*016#0150	С	22	16	85	10	125	3.5	6	150	1	0.856	0.771	0.343
TPSC226*016#0250	С	22	16	85	10	125	3.5	6	250	1	0.663	0.597	0.265
TPSC226*016#0300	C	22	16	85	10	125	3.5	6	300	1	0.606	0.545	0.242
TPSC226*016#0375 TPSD226*016#0700	C	22	16 16	85 85	10	125 125	3.5	6	375 700	1	0.542	0.487	0.217
TPSW226*016#0500	W	22	16	85	10	125	3.5	6	500	1	0.424	0.417	0.170
TPSB336*016#0350	В	33	16	85	10	125	5.3	8	350	1	0.493	0.444	0.197
TPSB336*016#0500	В	33	16	85	10	125	5.3	8	500	1	0.412	0.371	0.165
TPSC336*016#0100	С	33	16	85	10	125	5.3	6	100	1	1.049	0.944	0.420
TPSC336*016#0150 TPSC336*016#0225	C	33 33	16 16	85 85	10	125 125	5.3 5.3	6	150 225	1	0.856	0.771	0.343
TPSC336*016#0300	C	33	16	85	10	125	5.3	6	300	1	0.606	0.029	0.242
TPSD336*016#0200	D	33	16	85	10	125	5.3	6	200	1	0.866	0.779	0.346
TPSW336*016#0140	W	33	16	85	10	125	5.3	6	140	1	0.802	0.722	0.321
TPSW336*016#0175	W	33	16	85	10	125	5.3	6	175	1	0.717	0.645	0.287
TPSW336*016#0250	W	33	16	85	10	125	5.3	6	250	1	0.600	0.540	0.240
TPSW336*016#0400 TPSW336*016#0500	W	33	16 16	85 85	10	125 125	5.3	6	500	1	0.474	0.427	0.190
TPSY336*016#0300	Y	33	16	85	10	125	5.3	6	300	11)	0.424	0.581	0.170
TPSY336*016#0400	Υ	33	16	85	10	125	5.3	6	400	11)	0.559	0.503	0.224
TPSC476*016#0110	С	47	16	85	10	125	7.5	6	110	1	1.000	0.900	0.400
TPSC476*016#0350	C	47	16	85	10	125	7.5	6	350	1	0.561	0.505	0.224
TPSD476*016#0080 TPSD476*016#0100	D	47 47	16 16	85 85	10 10	125 125	7.5 7.5	6	100	1	1.369	1.232	0.548
TPSD476*016#0100	D	47	16	85	10	125	7.5	6	150	1	1.000	0.900	0.490
TPSD476*016#0200	D	47	16	85	10	125	7.5	6	200	1	0.866	0.779	0.346
TPSW476*016#0200	W	47	16	85	10	125	7.5	6	200	1	0.671	0.604	0.268
TPSX476*016#0180	X	47	16	85	10	125	7.5	6	180	1 <sup>1)</sup>	0.745	0.671	0.298
TPSY476*016#0250	Y	47	16	85	10	125	7.5	6	250	11)	0.707	0.636	0.283
TPSC686*016#0125 TPSC686*016#0200	C	68 68	16 16	85 85	10	125 125	10.9 10.9	6	125 200	1	0.938	0.844	0.375
TPSD686*016#0070	D	68	16	85	10	125	10.9	6	70	1	1.464	1.317	0.297
TPSD686*016#0100	D	68	16	85	10	125	10.9	6	100	1	1.225	1.102	0.490
TPSD686*016#0150	D	68	16	85	10	125	10.9	6	150	1	1.000	0.900	0.400
TPSF686*016#0200	F	68	16	85	10	125	10.9	10	200	1	0.707	0.636	0.283
TPSX686*016#0150	X	68	16	85	10	125	10.9	8	150	1 <sup>1)</sup>	0.816	0.735	0.327
TPSY686*016#0150 TPSY686*016#0200	Y	68 68	16 16	85 85	10 10	125 125	10.9 10.9	6	150 200	1 <sup>1)</sup>	0.913	0.822	0.365
TPSY686*016#0250	Y	68	16	85	10	125	10.9	6	250	11)	0.791	0.636	0.283
11 01000 010#0200	<u> </u>		10		10	120	10.0		200		0.707	0.000	0.200





AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF %	ESR Max (m0)	Mei		RMS Cur	rent (A)
Part No.	Size	(μF)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C
TPSC107*016#0200	С	100	16	85	10	125	16	8	200	1	0.742	0.667	0.297
TPSD107*016#0060	D	100	16	85	10	125	16	6	60	1	1.581	1.423	0.632
TPSD107*016#0100	D	100	16	85	10	125	16	6	100	1	1.225	1.102	0.490
TPSD107*016#0125	D D	100	16 16	85	10	125 125	16	6	125	1	1.095	0.986	0.438
TPSD107*016#0150 TPSE107*016#0055	E	100	16	85 85	10	125	16 16	6	150 55	11)	1.000	0.900 1.559	0.400
TPSE107*016#0100	E	100	16	85	10	125	16	6	100	1 1)	1.285	1.156	0.514
TPSE107*016#0125	Ē	100	16	85	10	125	16	6	125	1 1)	1.149	1.034	0.460
TPSE107*016#0150	E	100	16	85	10	125	16	6	150	11)	1.049	0.944	0.420
TPSF107M016#0150	F	100	16	85	10	125	16	10	150	1	0.816	0.735	0.327
TPSF107M016#0200	F	100	16	85	10	125	16	10	200	1	0.707	0.636	0.283
TPSY107*016#0100	Υ	100	16	85	10	125	16	8	100	11)	1.118	1.006	0.447
TPSY107*016#0150	Y	100	16	85	10	125 125	16	8	150	1 <sup>1)</sup>	0.913	0.822	0.365
TPSY107*016#0200 TPSD157*016#0060	D	100 150	16 16	85 85	10	125	16 24	8	200 60	1	0.791	0.712 1.423	0.316
TPSD157*016#0085	D	150	16	85	10	125	24	6	85	1	1.328	1.196	0.531
TPSD157*016#0100	D	150	16	85	10	125	24	6	100	1	1.225	1.102	0.490
TPSD157*016#0125	D	150	16	85	10	125	24	6	125	1	1.095	0.986	0.438
TPSD157*016#0150	D	150	16	85	10	125	23	8	150	1	1.000	0.900	0.400
TPSE157*016#0100	Е	150	16	85	10	125	24	6	100	11)	1.285	1.156	0.514
TPSV157*016#0045	V	150	16	85	10	125	24	8	45	11)	2.357	2.121	0.943
TPSV157*016#0075	V	150	16	85	10	125	24	8	75	11)	1.826	1.643	0.730
TPSY157M016#0200	Y	150	16	85	10	125	24	15	200	11)	0.791	0.712	0.316
TPSE227*016#0100	E	220	16	85	10	125	35.2	10	100	1 <sup>1)</sup>	1.285	1.156	0.514
TPSE227*016#0150	E V	220 220	16	85	10	125	35.2	10	150	1 <sup>1)</sup>	1.049	0.944	0.420
TPSV227*016#0050 TPSV227*016#0075	V	220	16 16	85 85	10	125 125	35.2 35.2	8	50 75	11)	2.236	2.012 1.643	0.894
TPSV227*016#0100	V	220	16	85	10	125	35.2	8	100	11)	1.581	1.423	0.730
TPSV227*016#0150	V	220	16	85	10	125	35.2	8	150	1 1)	1.291	1.162	0.516
TPSE337M016#0200	Ė	330	16	85	10	125	52.8	30	200	1 1)	0.908	0.817	0.363
						t @ 85°C				-			
TPSA105*020#3000	Α	1	20	85	13	125	0.5	4	3000	1	0.158	0.142	0.063
TPSR105*020#6000	R	1	20	85	13	125	0.5	4	6000	1	0.096	0.086	0.038
TPSS105*020#6000	S	1	20	85	13	125	0.5	4	6000	1	0.104	0.094	0.042
TPST105*020#2000	T	1	20	85	13	125	0.5	4	2000	1	0.200	0.180	0.080
TPSA155*020#3000	A	1.5 2.2	20 20	85 85	13 13	125 125	0.5	6	3000	1	0.158	0.142	0.063
TPSA225*020#3000 TPSB225*020#1700	A B	2.2	20	85	13	125	0.5 0.5	6	3000 1700	1	0.158	0.142	0.063
TPSA335*020#2500	A	3.3	20	85	13	125	0.7	6	2500	1	0.173	0.201	0.069
TPSB335*020#1300	В	3.3	20	85	13	125	0.7	6	1300	1	0.256	0.230	0.102
TPSA475*020#1800	A	4.7	20	85	13	125	0.9	6	1800	1	0.204	0.184	0.082
TPSB475*020#0750	В	4.7	20	85	13	125	0.9	6	750	1	0.337	0.303	0.135
TPSB475*020#1000	В	4.7	20	85	13	125	0.9	6	1000	1	0.292	0.262	0.117
TPSA685*020#1000	Α	6.8	20	85	13	125	1.4	6	1000	1	0.274	0.246	0.110
TPSB685*020#0600	В	6.8	20	85	13	125	1.4	6	600	1	0.376	0.339	0.151
TPSB685*020#1000	В	6.8	20	85	13	125	1.4	6	1000		0.292	0.262	0.117
TPSC685*020#0700	С	6.8	20	85	13	125	1.4	6	700	1	0.396	0.357	0.159
TPSB106*020#0500	В	10	20	85	13	125	2	6	500	1	0.412	0.371	0.165
TPSB106*020#1000 TPSC106*020#0500	B	10 10	20	85 85	13	125 125		6	1000	1	0.292	0.262	0.117
TPSC106*020#0700	C	10	20	85 85	13	125 125	2	6	700	1	0.469	0.422	0.188
TPSW106*020#0250	W	10	20	85	13	125	2	6	250	1	0.600	0.540	0.139
TPSW106*020#0500	W	10	20	85	13	125	2	6	500	1	0.424	0.382	0.170
TPSB156*020#0500	В	15	20	85	13	125	3	6	500	1	0.412	0.371	0.165
TPSC156*020#0400	С	15	20	85	13	125	3	6	400	1	0.524	0.472	0.210
TPSC156*020#0450	С	15	20	85	13	125	3	6	450	1	0.494	0.445	0.198
TPSB226*020#0400	В	22	20	85	13	125	4.4	6	400	1	0.461	0.415	0.184
TPSB226*020#0600	В	22	20	85	13	125	4.4	6	600		0.376	0.339	0.151
TPSC226*020#0100	С	22	20	85	13	125	4.4	6	100	1	1.049	0.944	0.420
TPSC226*020#0150	C	22	20	85	13	125	4.4	6	150	1	0.856	0.771	0.343
TPSC226*020#0400	С	22	20	85	13	125	4.4	6	400 200	1	0.524	0.472	0.210
TPSD226*020#0200 TPSD226*020#0300	D D	22 22	20 20	85 85	13 13	125 125	4.4	6	300	1	0.866	0.779	0.346
TPSC336*020#0300	С	33	20	85	13	125	6.6	6	300	1	0.606	0.545	0.242
TPSD336*020#0100	D	33	20	85	13	125	6.6	6	100	1	1.225	1.102	0.490
TPSD336*020#0200	D	33	20	85	13	125	6.6	6	200	1	0.866	0.779	0.346
TPSD476*020#0075	D	47	20	85	13	125	9.4	6	75	1	1.414	1.273	0.566
TPSD476*020#0100	D	47	20	85	13	125	9.4	6	100	1	1.225	1.102	0.490
TPSD476*020#0200	D	47	20	85	13	125	9.4	6	200	1	0.866	0.779	0.346
TPSE476*020#0070	Е	47	20	85	13	125	9.4	6	70	1 <sup>1)</sup>	1.535	1.382	0.614
	Е	47	20	85	13	125	9.4	6	125	11)	1.149	1.034	0.460
TPSE476*020#0125	E	47	20	00	13	120	0.1	6	120	11)	1.170	1.00-	01.00





AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR		100kHz	z RMS Cur	rent (A)
Part No.	Size	(μF)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C
TPSE476*020#0200	Е	47	20	85	13	125	9.4	6	200	1 <sup>1)</sup>	0.908	0.817	0.363
TPSE476*020#0250 TPSX476*020#0200	E X	47 47	20	85 85	13 13	125 125	9.4	6	250 200	1 <sup>1)</sup>	0.812	0.731	0.325
TPSD686*020#0070	D	68	20	85	13	125	13.6	6	70	1	1.464	1.317	0.283
TPSD686*020#0150	D	68	20	85	13	125	13.6	6	150	1	1.000	0.900	0.400
TPSD686*020#0200	D	68	20	85	13	125	13.6	6	200	1	0.866	0.779	0.346
TPSD686*020#0300	D	68	20	85	13	125	13.6	6	300	1	0.707	0.636	0.283
TPSE686*020#0125 TPSE686*020#0150	E	68 68	20	85 85	13 13	125 125	13.6	6	125 150	1 <sup>1)</sup>	1.149	1.034 0.944	0.460
TPSE686*020#0150	E	68	20	85	13	125	13.6 13.6	6	200	11)	0.908	0.944	0.420
TPSY686*020#0200	Y	68	20	85	13	125	13.6	6	200	11)	0.791	0.712	0.316
TPSD107*020#0085	D	100	20	85	13	125	20	6	85	1	1.328	1.196	0.531
TPSD107*020#0100	D	100	20	85	13	125	20	6	100	1	1.225	1.102	0.490
TPSD107*020#0150 TPSE107*020#0100	D E	100	20	85 85	13 13	125 125	20	6	150	1 1 <sup>1)</sup>	1.000	0.900	0.400
TPSE107*020#0150	E	100	20	85	13	125	20	6	150	11)	1.049	0.944	0.420
TPSE107*020#0200	Ē	100	20	85	13	125	20	6	200	11)	0.908	0.817	0.363
TPSV107*020#0060	V	100	20	85	13	125	20	8	60	11)	2.041	1.837	0.816
TPSV107*020#0085	V	100	20	85	13	125	20	8	85	11)	1.715	1.543	0.686
TPSV107*020#0100 TPSV107*020#0200	V	100	20	85 85	13 13	125 125	20	8	100	1 <sup>1)</sup>	1.581	1.423	0.632
TPSV107 020#0200 TPSV157*020#0080	V	150	20	85	13	125	30	8	80	11)	1.768	1.591	0.707
					25 Vol	t @ 85°C							
TPSA474*025#7000	Α	0.47	25	85	17	125	0.5	4	7000	1	0.104	0.093	0.041
TPSA684*025#6000 TPSA105*025#4000	A	0.68	25 25	85 85	17 17	125 125	0.5 0.5	4	6000 4000	1	0.112	0.101	0.045
TPSR105 025#4000 TPSR105*025#2500	R	1	25	85	17	125	0.5	4	2500	1	0.137	0.123	0.059
TPSR105*025#4000	R	1	25	85	17	125	0.5	4	4000	1	0.117	0.106	0.033
TPSA155*025#3000	Α	1.5	25	85	17	125	0.5	6	3000	1	0.158	0.142	0.063
TPSB155*025#1800	В	1.5	25	85	17	125	0.5	6	1800	1	0.217	0.196	0.087
TPSA225*025#2500 TPSB225*025#0900	A B	2.2	25 25	85 85	17 17	125 125	0.6	6	2500 900	1	0.173	0.156	0.069
TPSB225*025#1200	В	2.2	25	85	17	125	0.6	6	1200	1	0.307	0.217	0.123
TPSB225*025#2500	В	2.2	25	85	17	125	0.6	6	2500	1	0.184	0.166	0.074
TPSA335*025#1000	Α	3.3	25	85	17	125	0.8	6	1000	1	0.274	0.246	0.110
TPSA335*025#1500	A	3.3	25	85	17	125	0.8	6	1500	1	0.224	0.201	0.089
TPSB335*025#0750 TPSB335*025#1500	B	3.3	25 25	85 85	17 17	125 125	0.8	6	750 1500	1	0.337	0.303	0.135
TPSB335*025#2000	В	3.3	25	85	17	125	0.8	6	2000	1	0.206	0.214	0.082
TPSB475*025#0700	В	4.7	25	85	17	125	1.2	6	700	1	0.348	0.314	0.139
TPSB475*025#0900	В	4.7	25	85	17	125	1.2	6	900	1	0.307	0.277	0.123
TPSB475*025#1500	B C	4.7	25 25	85	17 17	125 125	1.2 1.2	6	1500 700	1	0.238	0.214	0.095
TPSC475*025#0700 TPSB685*025#0700	В	6.8	25	85 85	17	125	1.7	6	700	1	0.396	0.357	0.159
TPSC685*025#0500	C	6.8	25	85	17	125	1.7	6	500	1	0.469	0.422	0.188
TPSC685*025#0600	С	6.8	25	85	17	125	1.7	6	600	1	0.428	0.385	0.171
TPSC685*025#0700	C	6.8	25	85	17	125	1.7	6	700	1	0.396	0.357	0.159
TPSB106*025#1800	B C	10 10	25 25	85 85	17 17	125 125	2.5	6	1800 300	1	0.217	0.196 0.545	0.087
TPSC106*025#0300 TPSC106*025#0500	C	10	25	85	17	125	2.5	6	500	1	0.469	0.422	0.242
TPSD106*025#0500	D	10	25	85	17	125	2.5	6	500	1	0.548	0.493	0.219
TPSC156*025#0220	С	15	25	85	17	125	3.8	6	220	1	0.707	0.636	0.283
TPSC156*025#0300	C	15	25	85	17	125	3.8	6	300	1	0.606	0.545	0.242
TPSD156*025#0100 TPSD156*025#0300	D D	15 15	25 25	85 85	17 17	125 125	3.8	6	100 300	1	0.707	1.102 0.636	0.490
TPSC226*025#0275	C	22	25	85	17	125	5.5	6	275	1	0.632	0.569	0.253
TPSC226*025#0400	С	22	25	85	17	125	5.5	6	400	1	0.524	0.472	0.210
TPSD226*025#0100	D	22	25	85	17	125	5.5	6	100	1	1.225	1.102	0.490
TPSD226*025#0200 TPSD226*025#0300	D	22 22	25	85 85	17 17	125 125	5.5 5.5	6	200 300	1	0.866	0.779	0.346
TPSC336*025#0400	С	33	25 25	85	17	125	8.3	6	400	1	0.707	0.636	0.283
TPSD336*025#0100	D	33	25	85	17	125	8.3	6	100	1	1.225	1.102	0.490
TPSD336*025#0200	D	33	25	85	17	125	8.3	6	200	1	0.866	0.779	0.346
TPSD336*025#0300	D	33	25	85	17	125	8.3	6	300	1	0.707	0.636	0.283
TPSE336*025#0100	E	33	25	85	17 17	125	8.3	6	100 175	1 <sup>1)</sup>	1.285	1.156	0.514
TPSE336*025#0175 TPSE336*025#0200	E	33 33	25 25	85 85	17	125 125	8.3 8.3	6	200	11)	0.971	0.874	0.388
TPSE336*025#0300	Ē	33	25	85	17	125	8.3	6	300	11)	0.742	0.667	0.297
TPSY336*025#0200	Υ	33	25	85	17	125	8.3	6	200	1 <sup>1)</sup>	0.791	0.712	0.316
TPSD476*025#0125	D	47	25	85	17	125	11.8	6	125	1	1.095	0.986	0.438
TPSD476*025#0150	D	47 47	25	85	17 17	125	11.8	6	150	1	1.000	0.900	0.400
TPSD476*025#0250	D	47	25	85	17	125	11.8	6	250	1	0.775	0.697	0.310





AVX	Case	Capacitance	Rated	Rated	Category	_ Category	DCL	DF	ESR		100kHz	RMS Curi	rent (A)
Part No.	Size	(μF)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C
TPSE476*025#0080	Е	47	25	85	17	125	11.8	6	80	1 <sup>1)</sup>	1.436	1.293	0.574
TPSE476*025#0100	E	47 47	25	85 85	17	125 125	11.8	6	100 125	1 <sup>1)</sup>	1.285	1.156	0.514
TPSE476*025#0125 TPSY476*025#0250	Y	47	25 25	85	17	125	11.8	6	250	11)	0.707	0.636	0.460
TPSD686*025#0150	D	68	25	85	17	125	17	6	150	1	1.000	0.900	0.400
TPSD686*025#0200	D	68	25	85	17	125	17	6	200	1	0.866	0.779	0.346
TPSD686*025#0300	D	68	25	85	17	125	17	6	300	1	0.707	0.636	0.283
TPSE686*025#0125	E	68	25	85	17	125	17	6	125	11)	1.149	1.034	0.460
TPSE686*025#0200 TPSV686*025#0080	E	68 68	25 25	85 85	17 17	125 125	17 17	6	200 80	1 <sup>1)</sup>	0.908 1.768	0.817 1.591	0.363
TPSV686*025#0095	V	68	25	85	17	125	17	6	95	11)	1.622	1.460	0.707
TPSV686*025#0150	V	68	25	85	17	125	17	6	150	11)	1.291	1.162	0.516
TPSV686*025#0200	V	68	25	85	17	125	17	6	200	1 <sup>1)</sup>	1.118	1.006	0.447
TPSE107*025#0150	E	100	25	85	17	125	25	10	150	11)	1.049	0.944	0.420
TPSV107*025#0100	V	100 150	25 25	85 85	17 17	125 125	25 37.5	8 10	100 150	1 <sup>1)</sup>	1.581	1.423	0.632
TPSV157M025#0150	l V	150	25	65		t @ 85°C	37.5	10	150	17	1.291	1.162	0.516
TPSA224*035#6000	Α	0.22	35	85	23	125	0.5	4	6000	1	0.112	0.101	0.045
TPSA334*035#6000	Α	0.33	35	85	23	125	0.5	4	6000	1	0.112	0.101	0.045
TPSA474*035#6000	Α	0.47	35	85	23	125	0.5	4	6000	1	0.112	0.101	0.045
TPSB474*035#4000	В	0.47	35	85	23	125	0.5	4	4000	1	0.146	0.131	0.058
TPSA684*035#6000 TPSA105*035#3000	A	0.68	35 35	85 85	23	125 125	0.5 0.5	4	6000 3000	1	0.112	0.101 0.142	0.045
TPSB105*035#2000	В	1	35	85	23	125	0.5	4	2000	1	0.206	0.142	0.082
TPSA155*035#3000	A	1.5	35	85	23	125	0.5	6	3000	1	0.158	0.142	0.063
TPSB155*035#2500	В	1.5	35	85	23	125	0.5	6	2500	1	0.184	0.166	0.074
TPSA225*035#1500	A	2.2	35	85	23	125	0.8	6	1500		0.224	0.201	0.089
TPSB225*035#0750 TPSB225*035#1500	B	2.2	35 35	85 85	23	125 125	0.8	6	750 1500	1	0.337	0.303 0.214	0.135
TPSB225*035#1500	В	2.2	35	85	23	125	0.8	6	2000	1	0.206	0.214	0.095
TPSC225*035#1000	C	2.2	35	85	23	125	0.8	6	1000	1	0.332	0.298	0.133
TPSB335*035#1000	В	3.3	35	85	23	125	1.2	6	1000	1	0.292	0.262	0.117
TPSC335*035#0700	С	3.3	35	85	23	125	1.2	6	700	1	0.396	0.357	0.159
TPSB475*035#0700	В	4.7	35	85	23	125	1.6	6	700	1	0.348	0.314	0.139
TPSB475*035#1500 TPSC475*035#0600	В	4.7	35 35	85 85	23	125 125	1.6 1.6	6	1500 600	1	0.238	0.214	0.095
TPSD475*035#0700	D	4.7	35	85	23	125	1.6	6	700	1	0.463	0.383	0.171
TPSC685*035#0350	C	6.8	35	85	23	125	2.4	6	350	1	0.561	0.505	0.224
TPSD685*035#0150	D	6.8	35	85	23	125	2.4	6	150	1	1.000	0.900	0.400
TPSD685*035#0400	D	6.8	35	85	23	125	2.4	6	400		0.612	0.551	0.245
TPSD685*035#0500 TPSC106*035#0600	D C	6.8	35 35	85 85	23	125 125	2.4 3.5	6	500 600	1	0.548	0.493	0.219
TPSD106*035#0000	D	10	35	85	23	125	3.5	6	125	1	1.095	0.383	0.171
TPSD106*035#0300	D	10	35	85	23	125	3.5	6	300	1	0.707	0.636	0.283
TPSE106*035#0200	Е	10	35	85	23	125	3.5	6	200	1 <sup>1)</sup>	0.908	0.817	0.363
TPSY106*035#0250	Y	10	35	85	23	125	3.5	6	250	11)	0.707	0.636	0.283
TPSC156*035#0350	C	15	35	85	23	125	5.3	6	350	1	0.561	0.505	0.224
TPSC156*035#0450 TPSD156*035#0100	C D	15 15	35 35	85 85	23 23	125 125	5.3 5.3	6	450 100	<u>1</u> 1	0.494 1.225	0.445 1.102	0.198
TPSD156*035#0300	D	15	35	85	23	125	5.3	6	300	1	0.707	0.636	0.283
TPSY156*035#0250	Υ	15	35	85	23	125	5.3	6	250	1 <sup>1)</sup>	0.707	0.636	0.283
TPSD226*035#0125	D	22	35	85	23	125	7.7	6	125	1	1.095	0.986	0.438
TPSD226*035#0200	D	22	35	85	23	125	7.7	6	200	1	0.866	0.779	0.346
TPSD226*035#0300 TPSD226*035#0400	D D	22 22	35 35	85 85	23 23	125 125	7.7 7.7	6	300 400	<u>1</u> 1	0.707	0.636 0.551	0.283
TPSD226*035#0400 TPSE226*035#0125	E	22	35	85	23	125	7.7	6	125	11)	1.149	1.034	0.245
TPSE226*035#0200	E	22	35	85	23	125	7.7	6	200	11)	0.908	0.817	0.363
TPSE226*035#0300	Е	22	35	85	23	125	7.7	6	300	1 <sup>1)</sup>	0.742	0.667	0.297
TPSY226*035#0200	Y	22	35	85	23	125	7.7	6	200	11)	0.791	0.712	0.316
TPSD336*035#0200	D	33	35	85	23	125	11.6	6	200	1	0.866	0.779	0.346
TPSD336*035#0300 TPSE336*035#0100	D E	33	35 35	85 85	23	125 125	11.6 11.6	6	300 100	1 11)	0.707	0.636 1.156	0.283
TPSE336*035#0100	E	33	35	85	23	125	11.6	6	250	11)	0.812	0.731	0.314
TPSE336*035#0300	E	33	35	85	23	125	11.6	6	300	1 1)	0.742	0.667	0.297
TPSV336*035#0200	V	33	35	85	23	125	11.6	6	200	11)	1.118	1.006	0.447
TPSE476*035#0200	E	47	35	85	23	125	16.5	6	200	11)	0.908	0.817	0.363
TPSE476*035#0250 TPSV476*035#0150	E V	47 47	35 35	85 85	23	125 125	16.5 16.5	6	250 150	1 <sup>1)</sup>	0.812	0.731	0.325
TPSV476*035#0150	V	47	35	85	23	125	16.5	6	200	11)	1.118	1.162 1.006	0.516
TPSV686*035#0150	V	68	35	85	23	125	23.8	6	150	11)	1.291	1.162	0.447
TPSV686*035#0200	V	68	35	85	23	125	23.8	6	200	11)	1.118	1.006	0.447

#### **Low ESR**



#### **RATINGS & PART NUMBER REFERENCE**

AVX	Case	Capacitance	Rated	Rated	Category	_Category	DCL	DF	ESR		100kH	z RMS Cur	rent (A)
Part No.	Size	(μF)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C
				` ` `	50 Vol	t @ 85°C							
TPSA154*050#9000	ΙA	0.15	50	85	33	125	0.5	4	9000	1	0.091	0.082	0.037
TPSA224*050#7000	Α	0.22	50	85	33	125	0.5	4	7000	1	0.104	0.093	0.041
TPSA334*050#7000	Α	0.33	50	85	33	125	0.5	4	7000	1	0.104	0.093	0.041
TPSA474*050#6500	Α	0.47	50	85	33	125	0.5	4	6500	1	0.107	0.097	0.043
TPSB474*050#6000	В	0.47	50	85	33	125	0.5	4	6000	1	0.119	0.107	0.048
TPSC474*050#2300	С	0.47	50	85	33	125	0.5	4	2300	1	0.219	0.197	0.087
TPSB684*050#4000	В	0.68	50	85	33	125	0.5	4	4000	1	0.146	0.131	0.058
TPSB105*050#3000	В	1	50	85	33	125	0.5	6	3000	1	0.168	0.151	0.067
TPSC105*050#2500	С	1	50	85	33	125	0.5	4	2500	1	0.210	0.189	0.084
TPSC155*050#1500	С	1.5	50	85	33	125	0.8	6	1500	1	0.271	0.244	0.108
TPSC155*050#2000	С	1.5	50	85	33	125	0.8	6	2000	1	0.235	0.211	0.094
TPSC225*050#1500	С	2.2	50	85	33	125	1.1	8	1500	1	0.271	0.244	0.108
TPSD225*050#1200	D	2.2	50	85	33	125	1.1	6	1200	1	0.354	0.318	0.141
TPSC335*050#1000	С	3.3	50	85	33	125	1.6	6	1000	1	0.332	0.298	0.133
TPSD335*050#0800	D	3.3	50	85	33	125	1.7	6	800	1	0.433	0.390	0.173
TPSC475*050#0800	С	4.7	50	85	33	125	2.4	6	800	1	0.371	0.334	0.148
TPSD475*050#0250	D	4.7	50	85	33	125	2.4	6	250	1	0.775	0.697	0.310
TPSD475*050#0300	D	4.7	50	85	33	125	2.4	6	300	1	0.707	0.636	0.283
TPSD475*050#0500	D	4.7	50	85	33	125	2.4	6	500	1	0.548	0.493	0.219
TPSD475*050#0700	D	4.7	50	85	33	125	2.4	6	700	1	0.463	0.417	0.185
TPSD685*050#0200	D	6.8	50	85	33	125	3.4	6	200	1	0.866	0.779	0.346
TPSD685*050#0300	D	6.8	50	85	33	125	3.4	6	300	1	0.707	0.636	0.283
TPSD685*050#0500	D	6.8	50	85	33	125	3.4	6	500	1	0.548	0.493	0.219
TPSD685*050#0600	D	6.8	50	85	33	125	3.4	6	600	1	0.500	0.450	0.200
TPSD106*050#0500	D	10	50	85	33	125	5	6	500	1	0.548	0.493	0.219
TPSE106*050#0250	Е	10	50	85	33	125	5	6	250	1 <sup>1)</sup>	0.812	0.731	0.325
TPSE106*050#0300	Е	10	50	85	33	125	5	6	300	1 <sup>1)</sup>	0.742	0.667	0.297
TPSE106*050#0400	Е	10	50	85	33	125	5	6	400	1 <sup>1)</sup>	0.642	0.578	0.257
TPSE106*050#0500	E	10	50	85	33	125	5	6	500	1 <sup>1)</sup>	0.574	0.517	0.230
TPSE156*050#0250	Е	15	50	85	33	125	7.5	6	250	1 <sup>1)</sup>	0.812	0.731	0.325
TPSV156*050#0250	V	15	50	85	33	125	7.5	6	250	11)	1.000	0.900	0.400

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

#### For AEC-Q200 availability, please contact AVX.

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 ismeasured 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 218.

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.

#### **QUALIFICATION TABLE**

TEST	TPS series (Temperature range -55°C to +125°C)									
IESI	Condition			Characteristics						
	Determine after application of rated voltage for 2000 $+48$ /-0 hours at $85\pm2^{\circ}$ C and then leaving 1-2 hours at room temperature. Also determine of $125^{\circ}$ C temperature, category voltage for 2000 $+48$ /-0 hours and then leaving 1-2 hours at room temperature. Power supply impedance to be $\leq 0.1\Omega$ /V.			Visual examination	no visible damage					
Endurance				DCL	1.5 x initial limit					
				ΔC/C	within ±10% of initial value					
				DF	initial limit					
				ESR	1.25 x initial limit					
Humidity	Determine after storage without applied voltage at 65±2°C and 95±2% relative humidity for 500 hours and then recovery 1-2 hours at room temperature.			Visual examination	no visible damage					
				DCL	1.5 x initial limit					
				ΔC/C	within ±10% of initial value					
				DF	1.2 x initial limit					
				ESR	1.25 x initial limit					
Temperature Stability	Step	Temperature°C	Duration(min)		+20°C	-55°C	+20°C	+85°C	+125°C	+20°C
	1 2	+20±2 -55+0/-3	15 15	DCL	IL*	n/a	IL*	10 x IL*	12.5 x IL*	IL*
	3	-55+0/-3 +20±2	15	ΔC/C	n/a	+0/-10%	±5%	+10/-0%	+12/-0%	±5%
	4	+85+3/-0	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	IL*
	5	+125+3/-0	15							
	6	+20±2	15	ESR	1.25 x IL*	2.5 x IL*	1.25 x IL*	1.25 x IL*	1.25 x IL*	1.25 x IL*
Surge Voltage	Test temperature: 125°C+3/0°C Test voltage: Category voltage at 125°C Surge voltage: 1.3 x category voltage at 125°C Series protection resistance 1000±100Ω Discharge resistance: 1000Ω Number of cycles: 1000x Cycle duration: 6 min; 30 sec charge, 5 min 30 sec discharge			Visual examination	no visible damage					
				DCL	initial limit					
				ΔC/C	within ±5% of initial value					
				DF	initial limit					
				ESR	1.25 x initial limit					

\*Initial Limit

