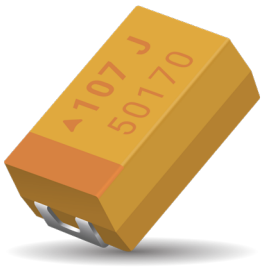
TPS Series

Low ESR



FEATURES

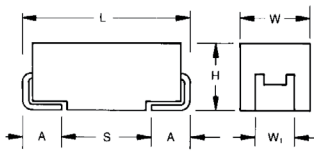
- Low ESR Series of Robust MnO_2 Solid Electrolyte Capacitors
- 100% Surge Current Tested
- CV Range: 0.15-1500µF / 2.5-50V
- 14 Case Sizes Available
- Power Supply Applications

LEAD-FREE
LEAD-FREE COMPATIBLE COMPONENT

RoHS COMPLIANT

APPLICATIONS

- General Medium Power DC/DC Convertors



CASE DIMENSIONS:

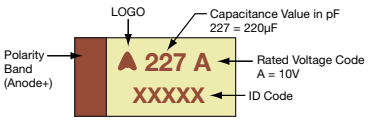
millimeters (inches)

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_1±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
A	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)
B	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)
C	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)
E	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)
P	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)
T	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 (0.122)	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)
X	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)
Y	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)

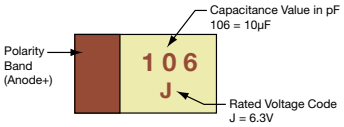
W_1 dimension applies to the termination width for A dimensional area only.

MARKING

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



P, R CASE



HOW TO ORDER

TPS	C	107	M	010	R	0100	–
Type	**Case Size** See table above	**Capacitance Code** pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow)	**Tolerance** K = ±10% M = ±20%	**Rated DC Voltage** 002 = 2.5Vdc 004 = 4Vdc 006 = 6.3Vdc 010 = 10Vdc 016 = 16Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	**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 K = Tin Lead 13" Reel H, K = Non RoHS A, B, H, K = Please Contact Manufacturer	**ESR in mΩ**	**Additional characters may be added for special requirements** V = Dry pack Option (selected ratings only, please contact manufacturer)

TECHNICAL SPECIFICATIONS

Technical Data:	All technical data relate to an ambient temperature of +25°C									
Capacitance Range:	0.15 µF to 1500 µF									
Capacitance Tolerance:	±10%; ±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 +125°C									
Environmental Classification:	55/125/56 (IEC 68-2)									
Reliability:	1% per 1000 hours at 85°C, V_R with 0.1Ω/V series impedance, 60% confidence level									
Termination Finished:	Sn Plating (standard), Gold and SnPb Plating upon request									
	For AEC-Q200 availability, please contact KYOCERA AVX									

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated Voltage DC (V_R) to 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(7000)
0.47	474							A(7000)	A(6000) B(4000)	A(6500), B(6000) 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) X(500)
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(100,150,200)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(300,500,900) 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) F(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) F(150,200,400) 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)	D(300), 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) T(500)(M) W(100)	B(250,400) C(75,150), D(300) W(100,150), Y(100)	B(400) 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), 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(50,100), V(45,75) Y(200)(M)	V(80)	V(150)(M)		
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)	D(200)(M) E(50,100,150) 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)(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)	E(150)(M) V(100)(M)					
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 ratings(M tolerance only) (ESR ratings in mOhms in parentheses)

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

RATINGS & PART NUMBER REFERENCE

Part Number	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
2.5 Volt @ 85°C													
TPSB107*002#0200	B	100	2.5	85	1.7	125	2.5	8	200	0.652	0.587	0.261	1
TPSB157*002#0150	B	150	2.5	85	1.7	125	3	10	150	0.753	0.677	0.301	1
TPSB227*002#0150	B	220	2.5	85	1.7	125	4.4	16	150	0.753	0.677	0.301	1
TPSB227*002#0200	B	220	2.5	85	1.7	125	4.4	16	200	0.652	0.587	0.261	1
TPSB227*002#0600	B	220	2.5	85	1.7	125	4.4	16	600	0.376	0.339	0.151	1
TPSD227*002#0045	D	220	2.5	85	1.7	125	5.5	8	45	1.826	1.643	0.730	1[1)]
TPSY337*002#0040	Y	330	2.5	85	1.7	125	8.2	8	40	1.768	1.591	0.707	1[1)]
TPSD477*002#0035	D	470	2.5	85	1.7	125	11.6	8	35	2.070	1.863	0.828	1[1)]
TPSF477*002#0200	F	470	2.5	85	1.7	125	11.8	12	200	0.707	0.636	0.283	1
TPSY477*002#0100	Y	470	2.5	85	1.7	125	11	12	100	1.118	1.006	0.447	1[1)]
TPSD687*002#0035	D	680	2.5	85	1.7	125	17	16	35	2.070	1.863	0.828	1[1)]
TPSD687*002#0050	D	680	2.5	85	1.7	125	17	16	50	1.732	1.559	0.693	1[1)]
TPSE687*002#0035	E	680	2.5	85	1.7	125	17	10	35	2.171	1.954	0.868	1[1)]
TPSE687*002#0050	E	680	2.5	85	1.7	125	17	10	50	1.817	1.635	0.727	1[1)]
TPSY687*002#0100	Y	680	2.5	85	1.7	125	17	12	100	1.118	1.006	0.447	1[1)]
TPSE108*002#0030	E	1000	2.5	85	1.7	125	25	14	30	2.345	2.111	0.938	1[1)]
TPSE108*002#0040	E	1000	2.5	85	1.7	125	25	14	40	2.031	1.828	0.812	1[1)]
TPSY108M002#0100	Y	1000	2.5	85	1.7	125	25	30	100	1.118	1.006	0.447	1[1)]
TPSD158*002#0100	D	1500	2.5	85	1.7	125	37.5	60	100	1.225	1.102	0.490	1[1)]
TPSE158*002#0050	E	1500	2.5	85	1.7	125	37.5	20	50	1.817	1.635	0.727	1[1)]
TPSV158M002#0030	V	1500	2.5	85	1.7	125	30	20	30	2.887	2.598	1.155	1[1)]
TPSV158M002#0040	V	1500	2.5	85	1.7	125	30	20	40	2.500	2.250	1.000	1[1)]
4 Volt @ 85°C													
TPSR106*004#3000	R	10	4	85	2.7	125	0.5	6	3000	0.135	0.122	0.054	1
TPSA476*004#0500	A	47	4	85	2.7	125	1.9	8	500	0.387	0.349	0.155	1
TPSB107*004#0200	B	100	4	85	2.7	125	4	8	200	0.652	0.587	0.261	1
TPSB107*004#0250	B	100	4	85	2.7	125	4	8	250	0.583	0.525	0.233	1
TPSB107*004#0350	B	100	4	85	2.7	125	4	8	350	0.493	0.444	0.197	1
TPSB107*004#0500	B	100	4	85	2.7	125	4	8	500	0.412	0.371	0.165	1
TPST107M004#0500	T	100	4	85	2.7	125	4	14	500	0.400	0.360	0.160	1
TPSW107*004#0100	W	100	4	85	2.7	125	4	6	100	0.949	0.854	0.379	1
TPSB157*004#0250	B	150	4	85	2.7	125	6	10	250	0.583	0.525	0.233	1
TPSC157*004#0070	C	150	4	85	2.7	125	6	6	70	1.254	1.128	0.501	1
TPSC157*004#0080	C	150	4	85	2.7	125	6	6	80	1.173	1.055	0.469	1
TPSD227*004#0040	D	220	4	85	2.7	125	8.8	8	40	1.936	1.743	0.775	1[1)]
TPSD227*004#0050	D	220	4	85	2.7	125	8.8	8	50	1.732	1.559	0.693	1[1)]
TPSD227*004#0100	D	220	4	85	2.7	125	8.8	8	100	1.225	1.102	0.490	1[1)]
TPSY227*004#0040	Y	220	4	85	2.7	125	8.8	8	40	1.768	1.591	0.707	1[1)]
TPSY227*004#0050	Y	220	4	85	2.7	125	8.8	8	50	1.581	1.423	0.632	1[1)]
TPSY227*004#0075	Y	220	4	85	2.7	125	8.8	8	75	1.291	1.162	0.516	1[1)]
TPSC337*004#0100	C	330	4	85	2.7	125	13.2	8	100	1.049	0.944	0.420	1
TPSD337*004#0035	D	330	4	85	2.7	125	13.2	8	35	2.070	1.863	0.828	1[1)]
TPSD337*004#0045	D	330	4	85	2.7	125	13.2	8	45	1.826	1.643	0.730	1[1)]
TPSD337*004#0100	D	330	4	85	2.7	125	13.2	8	100	1.225	1.102	0.490	1[1)]
TPSF337*004#0200	F	330	4	85	2.7	125	13.2	10	200	0.707	0.636	0.283	1
TPSX337*004#0100	X	330	4	85	2.7	125	13.2	8	100	1.000	0.900	0.400	1[1)]
TPSD477*004#0045	D	470	4	85	2.7	125	18.8	12	45	1.826	1.643	0.730	1[1)]
TPSD477*004#0100	D	470	4	85	2.7	125	18.8	12	100	1.225	1.102	0.490	1[1)]
TPSE477*004#0035	E	470	4	85	2.7	125	18.8	10	35	2.171	1.954	0.868	1[1)]
TPSE477*004#0045	E	470	4	85	2.7	125	18.8	10	45	1.915	1.723	0.766	1[1)]
TPSE477*004#0100	E	470	4	85	2.7	125	18.8	10	100	1.285	1.156	0.514	1[1)]
TPSD687*004#0045	D	680	4	85	2.7	125	27.2	14	45	1.826	1.643	0.730	1[1)]
TPSD687*004#0060	D	680	4	85	2.7	125	27.2	14	60	1.581	1.423	0.632	1[1)]
TPSD687*004#0100	D	680	4	85	2.7	125	27.2	14	100	1.225	1.102	0.490	1[1)]
TPSE687*004#0040	E	680	4	85	2.7	125	27.2	10	40	2.031	1.828	0.812	1[1)]
TPSE687*004#0060	E	680	4	85	2.7	125	27.2	10	60	1.658	1.492	0.663	1[1)]
TPSE687*004#0100	E	680	4	85	2.7	125	27.2	10	100	1.285	1.156	0.514	1[1)]
TPSE108*004#0040	E	1000	4	85	2.7	125	40	14	40	2.031	1.828	0.812	1[1)]
TPSE108*004#0060	E	1000	4	85	2.7	125	40	14	60	1.658	1.492	0.663	1[1)]
TPSV108*004#0025	V	1000	4	85	2.7	125	40	16	25	3.162	2.846	1.265	1[1)]
TPSV108*004#0035	V	1000	4	85	2.7	125	40	16	35	2.673	2.405	1.069	1[1)]
TPSV108*004#0040	V	1000	4	85	2.7	125	40	16	40	2.500	2.250	1.000	1[1)]
TPSV108*004#0050	V	1000	4	85	2.7	125	40	16	50	2.236	2.012	0.894	1[1)]
TPSE158*004#0050	E	1500	4	85	2.7	125	60	30	50	1.817	1.635	0.727	1[1)]
TPSE158*004#0075	E	1500	4	85	2.7	125	60	30	75	1.483	1.335	0.593	1[1)]
TPSV158M004#0050	V	1500	4	85	2.7	125	60	30	50	2.236	2.012	0.894	1[1)]
TPSV158M004#0075	V	1500	4	85	2.7	125	60	30	75	1.826	1.643	0.730	1[1)]
6.3 Volt @ 85°C													
TPSR225*006#7000	R	2.2	6.3	85	4	125	0.5	6	7000	0.089	0.080	0.035	1
TPSA335*006#2100	A	3.3	6.3	85	4	125	0.5	6	2100	0.189	0.170	0.076	1
TPSS475*006#4000	S	4.7	6.3	85	4	125	0.5	6	4000	0.127	0.115	0.051	1
TPSA685*006#1800	A	6.8	6.3	85	4	125	0.5	6	1800	0.204	0.184	0.082	1
TPSA106*006#1500	A	10	6.3	85	4	125	0.6	6	1500	0.224	0.201	0.089	1
TPSB106*006#1500	B	10	6.3	85	4	125	0.6	6	1500	0.238	0.214	0.095	1
TPSR106*006#1000	R	10	6.3	85	4	125	0.6	8	1000	0.235	0.211	0.094	1
TPSR106*006#1500	R	10	6.3	85	4	125	0.6	8	1500	0.191	0.172	0.077	1
TPSR106*006#3000	R	10	6.3	85	4	125	0.6	8	3000	0.135	0.122	0.054	1
TPST106*006#1000	T	10	6.3	85	4	125	0.6	6	1000	0.283	0.255	0.113	1
TPSA156*006#0700	A	15	6.3	85	4	125	0.9	6	700	0.327	0.295	0.131	1
TPSA156*006#1500	A	15	6.3	85	4	125	0.9	6	1500	0.224	0.201	0.089	1
TPSA226*006#0300	A	22	6.3	85	4	125	1.4	6	300	0.500	0.450	0.200	1

RATINGS & PART NUMBER REFERENCE

Part Number	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
TPSA226*006#0500	A	22	6.3	85	4	125	1.4	6	500	0.387	0.349	0.155	1
TPSA226*006#0900	A	22	6.3	85	4	125	1.4	6	900	0.289	0.260	0.115	1
TPSB226*006#0375	B	22	6.3	85	4	125	1.4	6	375	0.476	0.428	0.190	1
TPSB226*006#0600	B	22	6.3	85	4	125	1.4	6	600	0.376	0.339	0.151	1
TPSC226*006#0500	C	22	6.3	85	4	125	1.4	6	500	0.469	0.422	0.188	1
TPSS226*006#0900	S	22	6.3	85	4	125	1.3	10	900	0.269	0.242	0.107	1
TPSA336*006#0600	A	33	6.3	85	4	125	2.1	8	600	0.354	0.318	0.141	1
TPSB336*006#0250	B	33	6.3	85	4	125	2.1	6	250	0.583	0.525	0.233	1
TPSB336*006#0350	B	33	6.3	85	4	125	2.1	6	350	0.493	0.444	0.197	1
TPSB336*006#0450	B	33	6.3	85	4	125	2.1	6	450	0.435	0.391	0.174	1
TPSB336*006#0600	B	33	6.3	85	4	125	2.1	6	600	0.376	0.339	0.151	1
TPST336*006#0800	T	33	6.3	85	4	125	2.1	10	800	0.316	0.285	0.126	1
TPSA476*006#0800	A	47	6.3	85	4	125	2.8	10	800	0.306	0.276	0.122	1
TPSB476*006#0250	B	47	6.3	85	4	125	3	6	250	0.583	0.525	0.233	1
TPSB476*006#0350	B	47	6.3	85	4	125	3	6	350	0.493	0.444	0.197	1
TPSB476*006#0500	B	47	6.3	85	4	125	3	6	500	0.412	0.371	0.165	1
TPSC476*006#0300	C	47	6.3	85	4	125	3	6	300	0.606	0.545	0.242	1
TPST476*006#1200	T	47	6.3	85	4	125	2.8	10	1200	0.258	0.232	0.103	1
TPSB686*006#0250	B	68	6.3	85	4	125	4	8	250	0.583	0.525	0.233	1
TPSB686*006#0350	B	68	6.3	85	4	125	4	8	350	0.493	0.444	0.197	1
TPSB686*006#0500	B	68	6.3	85	4	125	4	8	500	0.412	0.371	0.165	1
TPSC686*006#0150	C	68	6.3	85	4	125	4.3	6	150	0.856	0.771	0.343	1
TPSC686*006#0200	C	68	6.3	85	4	125	4.3	6	200	0.742	0.667	0.297	1
TPSW686*006#0110	W	68	6.3	85	4	125	4.3	6	110	0.905	0.814	0.362	1
TPSW686*006#0125	W	68	6.3	85	4	125	4.3	6	125	0.849	0.764	0.339	1
TPSW686*006#0250	W	68	6.3	85	4	125	4.3	6	250	0.600	0.540	0.240	1
TPSB107*006#0250	B	100	6.3	85	4	125	6.3	10	250	0.583	0.525	0.233	1
TPSB107*006#0400	B	100	6.3	85	4	125	6.3	10	400	0.461	0.415	0.184	1
TPSC107*006#0075	C	100	6.3	85	4	125	6.3	6	75	1.211	1.090	0.484	1
TPSC107*006#0150	C	100	6.3	85	4	125	6.3	6	150	0.856	0.771	0.343	1
TPSD107*006#0300	D	100	6.3	85	4	125	6.3	6	300	0.707	0.636	0.283	1[1)]
TPSW107*006#0100	W	100	6.3	85	4	125	6.3	6	100	0.949	0.854	0.379	1
TPSW107*006#0150	W	100	6.3	85	4	125	6.3	6	150	0.775	0.697	0.310	1
TPSY107*006#0100	Y	100	6.3	85	4	125	6.3	6	100	1.118	1.006	0.447	1[1)]
TPSC157*006#0050	C	150	6.3	85	4	125	9.5	6	50	1.483	1.335	0.593	1
TPSC157*006#0090	C	150	6.3	85	4	125	9.5	6	90	1.106	0.995	0.442	1
TPSC157*006#0150	C	150	6.3	85	4	125	9.5	6	150	0.856	0.771	0.343	1
TPSC157*006#0200	C	150	6.3	85	4	125	9.5	6	200	0.742	0.667	0.297	1
TPSC157*006#0250	C	150	6.3	85	4	125	9.5	6	250	0.663	0.597	0.265	1
TPSD157*006#0050	D	150	6.3	85	4	125	9.5	6	50	1.732	1.559	0.693	1[1)]
TPSD157*006#0125	D	150	6.3	85	4	125	9.5	6	125	1.095	0.986	0.438	1[1)]
TPSY157*006#0040	Y	150	6.3	85	4	125	9.5	6	40	1.768	1.591	0.707	1[1)]
TPSY157*006#0050	Y	150	6.3	85	4	125	9.5	6	50	1.581	1.423	0.632	1[1)]
TPSC227*006#0070	C	220	6.3	85	4	125	13.9	8	70	1.254	1.128	0.501	1
TPSC227*006#0100	C	220	6.3	85	4	125	13.9	8	100	1.049	0.944	0.420	1
TPSC227*006#0125	C	220	6.3	85	4	125	13.9	8	125	0.938	0.844	0.375	1
TPSC227*006#0250	C	220	6.3	85	4	125	13.9	8	250	0.663	0.597	0.265	1
TPSD227*006#0050	D	220	6.3	85	4	125	13.9	8	50	1.732	1.559	0.693	1[1)]
TPSD227*006#0100	D	220	6.3	85	4	125	13.9	8	100	1.225	1.102	0.490	1[1)]
TPSD227*006#0125	D	220	6.3	85	4	125	13.9	8	125	1.095	0.986	0.438	1[1)]
TPSE227*006#0100	E	220	6.3	85	4	125	13.9	8	100	1.285	1.156	0.514	1[1)]
TPSF227*006#0200	F	220	6.3	85	4	125	13.2	10	200	0.707	0.636	0.283	1
TPSY227*006#0100	Y	220	6.3	85	4	125	13.9	8	100	1.118	1.006	0.447	1[1)]
TPSY227*006#0150	Y	220	6.3	85	4	125	13.9	8	150	0.913	0.822	0.365	1[1)]
TPSC337*006#0080	C	330	6.3	85	4	125	19.8	12	80	1.173	1.055	0.469	1
TPSC337*006#0100	C	330	6.3	85	4	125	19.8	12	100	1.049	0.944	0.420	1
TPSD337*006#0045	D	330	6.3	85	4	125	20.8	8	45	1.826	1.643	0.730	1[1)]
TPSD337*006#0050	D	330	6.3	85	4	125	20.8	8	50	1.732	1.559	0.693	1[1)]
TPSD337*006#0070	D	330	6.3	85	4	125	20.8	8	70	1.464	1.317	0.586	1[1)]
TPSD337*006#0100	D	330	6.3	85	4	125	20.8	8	100	1.225	1.102	0.490	1[1)]
TPSE337*006#0050	E	330	6.3	85	4	125	20.8	8	50	1.817	1.635	0.727	1[1)]
TPSE337*006#0100	E	330	6.3	85	4	125	20.8	8	100	1.285	1.156	0.514	1[1)]
TPSE337*006#0125	E	330	6.3	85	4	125	20.8	8	125	1.149	1.034	0.460	1[1)]
TPSE337*006#0150	E	330	6.3	85	4	125	20.8	8	150	1.049	0.944	0.420	1[1)]
TPSV337*006#0100	V	330	6.3	85	4	125	20.8	8	100	1.581	1.423	0.632	1[1)]
TPSY337*006#0075	Y	330	6.3	85	4	125	20.8	12	75	1.291	1.162	0.516	1[1)]
TPSY337*006#0100	Y	330	6.3	85	4	125	20.8	12	100	1.118	1.006	0.447	1[1)]
TPSY337*006#0150	Y	330	6.3	85	4	125	20.8	12	150	0.913	0.822	0.365	1[1)]
TPSD477*006#0045	D	470	6.3	85	4	125	28	12	45	1.826	1.643	0.730	1[1)]
TPSD477*006#0060	D	470	6.3	85	4	125	28	12	60	1.581	1.423	0.632	1[1)]
TPSD477*006#0100	D	470	6.3	85	4	125	28	12	100	1.225	1.102	0.490	1[1)]
TPSD477*006#0200	D	470	6.3	85	4	125	28	12	200	0.866	0.779	0.346	1[1)]
TPSE477*006#0045	E	470	6.3	85	4	125	28	10	45	1.915	1.723	0.766	1[1)]
TPSE477*006#0050	E	470	6.3	85	4	125	28	10	50	1.817	1.635	0.727	1[1)]
TPSE477*006#0060	E	470	6.3	85	4	125	28	10	60	1.658	1.492	0.663	1[1)]
TPSE477*006#0100	E	470	6.3	85	4	125	28	10	100	1.285	1.156	0.514	1[1)]
TPSE477*006#0200	E	470	6.3	85	4	125	28	10	200	0.908	0.817	0.363	1[1)]
TPSV477*006#0040	V	470	6.3	85	4	125	28	10	40	2.500	2.250	1.000	1[1)]
TPSV477*006#0055	V	470	6.3	85	4	125	28	10	55	2.132	1.919	0.853	1[1)]
TPSV477*006#0100	V	470	6.3	85	4	125	28	10	100	1.581	1.423	0.632	1[1)]
TPSY477*006#0150	Y	470	6,3	85	4	125	28.2	20	150	0.913	0.822	0.365	1[1)]
TPSE687*006#0045	E	680	6.3	85	4	125	42.8	10	45	1.915	1.723	0.766	1[1)]
TPSE687*006#0060	E	680	6.3	85	4	125	42.8	10	60	1.658	1.492	0.663	1[1)]
TPSE687*006#0100	E	680	6.3	85	4	125	42.8	10	100	1.285	1.156	0.514	1[1)]

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RATINGS & PART NUMBER REFERENCE

Part Number	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
TPSV687*006#0035	V	680	6.3	85	4	125	42.8	10	35	2.673	2.405	1.069	1[1)]
TPSV687*006#0040	V	680	6.3	85	4	125	42.8	10	40	2.500	2.250	1.000	1[1)]
TPSV687*006#0050	V	680	6.3	85	4	125	42.8	10	50	2.236	2.012	0.894	1[1)]
TPSE108M006#0100	E	1000	6.3	85	4	125	60	20	100	1.285	1.156	0.514	1[1)]
TPSV108M006#0040	V	1000	6.3	85	4	125	60	16	40	2.500	2.250	1.000	1[1)]
TPSV108M006#0050	V	1000	6.3	85	4	125	60	16	50	2.236	2.012	0.894	1[1)]
10 Volt @ 85°C													
TPSR105*010#9000	R	1	10	85	7	125	0.5	4	9000	0.078	0.070	0.031	1
TPSA225*010#1800	A	2.2	10	85	7	125	0.5	6	1800	0.204	0.184	0.082	1
TPST335*010#1500	T	3.3	10	85	7	125	0.5	6	1500	0.231	0.208	0.092	1
TPSA475*010#1400	A	4.7	10	85	7	125	0.5	6	1400	0.231	0.208	0.093	1
TPSB475*010#1400	B	4.7	10	85	7	125	0.5	6	1400	0.246	0.222	0.099	1
TPSR475*010#3000	R	4.7	10	85	7	125	0.5	6	3000	0.135	0.122	0.054	1
TPSR475*010#5000	R	4.7	10	85	7	125	0.5	6	5000	0.105	0.094	0.042	1
TPSA685*010#1800	A	6.8	10	85	7	125	0.7	6	1800	0.204	0.184	0.082	1
TPSB685*010#1300	B	6.8	10	85	7	125	0.7	6	1300	0.256	0.230	0.102	1
TPST685*010#1800	T	6.8	10	85	7	125	0.7	6	1800	0.211	0.190	0.084	1
TPSA106*010#0900	A	10	10	85	7	125	1	6	900	0.289	0.260	0.115	1
TPSA106*010#1800	A	10	10	85	7	125	1	6	1800	0.204	0.184	0.082	1
TPSB106*010#1000	B	10	10	85	7	125	1	6	1000	0.292	0.262	0.117	1
TPSP106M010#2000	P	10	10	85	7	125	1	8	2000	0.173	0.156	0.069	1
TPSS106*010#0900	S	10	10	85	7	125	1	8	900	0.269	0.242	0.107	1
TPST106*010#1000	T	10	10	85	7	125	1	6	1000	0.283	0.255	0.113	1
TPST106*010#2000	T	10	10	85	7	125	1	6	2000	0.200	0.180	0.080	1
TPSA156*010#1000	A	15	10	85	7	125	1.5	6	1000	0.274	0.246	0.110	1
TPSB156*010#0450	B	15	10	85	7	125	1.5	6	450	0.435	0.391	0.174	1
TPSB156*010#0600	B	15	10	85	7	125	1.5	6	600	0.376	0.339	0.151	1
TPSC156*010#0700	C	15	10	85	7	125	1.5	6	700	0.396	0.357	0.159	1
TPST156*010#1200	T	15	10	85	7	125	1.5	8	1200	0.258	0.232	0.103	1
TPSA226*010#0900	A	22	10	85	7	125	2.2	8	900	0.289	0.260	0.115	1
TPSB226*010#0400	B	22	10	85	7	125	2.2	6	400	0.461	0.415	0.184	1
TPSB226*010#0500	B	22	10	85	7	125	2.2	6	500	0.412	0.371	0.165	1
TPSB226*010#0700	B	22	10	85	7	125	2.2	6	700	0.348	0.314	0.139	1
TPSC226*010#0300	C	22	10	85	7	125	2.2	6	300	0.606	0.545	0.242	1
TPST226*010#0800	T	22	10	85	7	125	2.2	8	800	0.316	0.285	0.126	1
TPSA336*010#0700	A	33	10	85	7	125	3.3	8	700	0.327	0.295	0.131	1
TPSB336*010#0250	B	33	10	85	7	125	3.3	6	250	0.583	0.525	0.233	1
TPSB336*010#0425	B	33	10	85	7	125	3.3	6	425	0.447	0.402	0.179	1
TPSB336*010#0500	B	33	10	85	7	125	3.3	6	500	0.412	0.371	0.165	1
TPSB336*010#0650	B	33	10	85	7	125	3.3	6	650	0.362	0.325	0.145	1
TPSC336*010#0150	C	33	10	85	7	125	3.3	6	150	0.856	0.771	0.343	1
TPSC336*010#0375	C	33	10	85	7	125	3.3	6	375	0.542	0.487	0.217	1
TPSC336*010#0500	C	33	10	85	7	125	3.3	6	500	0.469	0.422	0.188	1
TPSW336*010#0350	W	33	10	85	7	125	3.3	6	350	0.507	0.456	0.203	1
TPSB476*010#0250	B	47	10	85	7	125	4.7	8	250	0.583	0.525	0.233	1
TPSB476*010#0350	B	47	10	85	7	125	4.7	8	350	0.493	0.444	0.197	1
TPSB476*010#0500	B	47	10	85	7	125	4.7	8	500	0.412	0.371	0.165	1
TPSB476*010#0650	B	47	10	85	7	125	4.7	8	650	0.362	0.325	0.145	1
TPSC476*010#0200	C	47	10	85	7	125	4.7	6	200	0.742	0.667	0.297	1
TPSC476*010#0350	C	47	10	85	7	125	4.7	6	350	0.561	0.505	0.224	1
TPSD476*010#0100	D	47	10	85	7	125	4.7	6	100	1.225	1.102	0.490	1[1)]
TPSD476*010#0300	D	47	10	85	7	125	4.7	6	300	0.707	0.636	0.283	1[1)]
TPSW476*010#0125	W	47	10	85	7	125	4.7	6	125	0.849	0.764	0.339	1
TPSW476*010#0150	W	47	10	85	7	125	4.7	6	150	0.775	0.697	0.310	1
TPSW476*010#0250	W	47	10	85	7	125	4.7	6	250	0.600	0.540	0.240	1
TPSB686*010#0600	B	68	10	85	7	125	6.8	8	600	0.376	0.339	0.151	1
TPSC686*010#0080	C	68	10	85	7	125	6.8	6	80	1.173	1.055	0.469	1
TPSC686*010#0100	C	68	10	85	7	125	6.8	6	100	1.049	0.944	0.420	1
TPSC686*010#0200	C	68	10	85	7	125	6.8	6	200	0.742	0.667	0.297	1
TPSC686*010#0300	C	68	10	85	7	125	6.8	6	300	0.606	0.545	0.242	1
TPSD686*010#0100	D	68	10	85	7	125	6.8	6	100	1.225	1.102	0.490	1[1)]
TPSD686*010#0150	D	68	10	85	7	125	6.8	6	150	1.000	0.900	0.400	1[1)]
TPSY686*010#0100	Y	68	10	85	7	125	6.8	6	100	1.118	1.006	0.447	1[1)]
TPSY686*010#0200	Y	68	10	85	7	125	6.8	6	200	0.791	0.712	0.316	1[1)]
TPSW686*010#0100	W	68	10	85	7	125	6.8	6	100	0.949	0.854	0.379	1
TPSW686*010#0150	W	68	10	85	7	125	6.8	6	150	0.775	0.697	0.310	1
TPSB107*010#0400	B	100	10	85	7	125	10	8	400	0.461	0.415	0.184	1
TPSC107*010#0075	C	100	10	85	7	125	10	8	75	1.211	1.090	0.484	1
TPSC107*010#0100	C	100	10	85	7	125	10	8	100	1.049	0.944	0.420	1
TPSC107*010#0150	C	100	10	85	7	125	10	8	150	0.856	0.771	0.343	1
TPSC107*010#0200	C	100	10	85	7	125	10	8	200	0.742	0.667	0.297	1
TPSD107*010#0050	D	100	10	85	7	125	10	6	50	1.732	1.559	0.693	1[1)]
TPSD107*010#0065	D	100	10	85	7	125	10	6	65	1.519	1.367	0.608	1[1)]
TPSD107*010#0080	D	100	10	85	7	125	10	6	80	1.369	1.232	0.548	1[1)]
TPSD107*010#0100	D	100	10	85	7	125	10	6	100	1.225	1.102	0.490	1[1)]
TPSD107*010#0125	D	100	10	85	7	125	10	6	125	1.095	0.986	0.438	1[1)]
TPSD107*010#0150	D	100	10	85	7	125	10	6	150	1.000	0.900	0.400	1[1)]
TPSE107*010#0125	E	100	10	85	7	125	10	6	125	1.149	1.034	0.460	1[1)]
TPSW107*010#0150	W	100	10	85	7	125	10	6	150	0.775	0.697	0.310	1
TPSX107*010#0085	X	100	10	85	7	125	10	8	85	1.085	0.976	0.434	1[1)]
TPSX107*010#0150	X	100	10	85	7	125	10	8	150	0.816	0.735	0.327	1[1)]
TPSX107*010#0200	X	100	10	85	7	125	10	8	200	0.707	0.636	0.283	1[1)]
TPSY107*010#0100	Y	100	10	85	7	125	10	6	100	1.118	1.006	0.447	1[1)]

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RATINGS & PART NUMBER REFERENCE

Part Number	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
TPSY107*010#0150	Y	100	10	85	7	125	10	6	150	0.913	0.822	0.365	1[1)]
TPSY107*010#0200	Y	100	10	85	7	125	10	6	200	0.791	0.712	0.316	1[1)]
TPSC157*010#0150	C	150	10	85	7	125	15	8	150	0.856	0.771	0.343	1
TPSD157*010#0050	D	150	10	85	7	125	15	8	50	1.732	1.559	0.693	1[1)]
TPSD157*010#0085	D	150	10	85	7	125	15	8	85	1.328	1.196	0.531	1[1)]
TPSD157*010#0100	D	150	10	85	7	125	15	8	100	1.225	1.102	0.490	1[1)]
TPSE157*010#0100	E	150	10	85	7	125	15	8	100	1.285	1.156	0.514	1[1)]
TPSF157*010#0200	F	150	10	85	7	125	15	10	200	0.707	0.636	0.283	1
TPSX157M010#0100	X	150	10	85	7	125	15	6	100	1.000	0.900	0.400	1[1)]
TPSY157*010#0100	Y	150	10	85	7	125	15	6	100	1.118	1.006	0.447	1[1)]
TPSY157*010#0150	Y	150	10	85	7	125	15	6	150	0.913	0.822	0.365	1[1)]
TPSY157*010#0200	Y	150	10	85	7	125	15	6	200	0.791	0.712	0.316	1[1)]
TPSD227*010#0040	D	220	10	85	7	125	22	8	40	1.936	1.743	0.775	1[1)]
TPSD227*010#0050	D	220	10	85	7	125	22	8	50	1.732	1.559	0.693	1[1)]
TPSD227*010#0100	D	220	10	85	7	125	22	8	100	1.225	1.102	0.490	1[1)]
TPSD227*010#0150	D	220	10	85	7	125	22	8	150	1.000	0.900	0.400	1[1)]
TPSE227*010#0050	E	220	10	85	7	125	22	8	50	1.817	1.635	0.727	1[1)]
TPSE227*010#0060	E	220	10	85	7	125	22	8	60	1.658	1.492	0.663	1[1)]
TPSE227*010#0070	E	220	10	85	7	125	22	8	70	1.535	1.382	0.614	1[1)]
TPSE227*010#0100	E	220	10	85	7	125	22	8	100	1.285	1.156	0.514	1[1)]
TPSE227*010#0125	E	220	10	85	7	125	22	8	125	1.149	1.034	0.460	1[1)]
TPSE227*010#0150	E	220	10	85	7	125	22	8	150	1.049	0.944	0.420	1[1)]
TPSY227*010#0100	Y	220	10	85	7	125	22	10	100	1.118	1.006	0.447	1[1)]
TPSY227*010#0150	Y	220	10	85	7	125	22	10	150	0.913	0.822	0.365	1[1)]
TPSY227*010#0200	Y	220	10	85	7	125	22	10	200	0.791	0.712	0.316	1[1)]
TPSD337*010#0050	D	330	10	85	7	125	33	8	50	1.732	1.559	0.693	1[1)]
TPSD337*010#0065	D	330	10	85	7	125	33	8	65	1.519	1.367	0.608	1[1)]
TPSD337*010#0100	D	330	10	85	7	125	33	8	100	1.225	1.102	0.490	1[1)]
TPSD337*010#0150	D	330	10	85	7	125	33	8	150	1.000	0.900	0.400	1[1)]
TPSE337*010#0040	E	330	10	85	7	125	33	8	40	2.031	1.828	0.812	1[1)]
TPSE337*010#0050	E	330	10	85	7	125	33	8	50	1.817	1.635	0.727	1[1)]
TPSE337*010#0060	E	330	10	85	7	125	33	8	60	1.658	1.492	0.663	1[1)]
TPSE337*010#0100	E	330	10	85	7	125	33	8	100	1.285	1.156	0.514	1[1)]
TPSV337*010#0040	V	330	10	85	7	125	33	10	40	2.500	2.250	1.000	1[1)]
TPSV337*010#0060	V	330	10	85	7	125	33	10	60	2.041	1.837	0.816	1[1)]
TPSV337*010#0100	V	330	10	85	7	125	33	10	100	1.581	1.423	0.632	1[1)]
TPSE477*010#0045	E	470	10	85	7	125	47	10	45	1.915	1.723	0.766	1[1)]
TPSE477*010#0050	E	470	10	85	7	125	47	10	50	1.817	1.635	0.727	1[1)]
TPSE477*010#0060	E	470	10	85	7	125	47	10	60	1.658	1.492	0.663	1[1)]
TPSE477*010#0100	E	470	10	85	7	125	47	10	100	1.285	1.156	0.514	1[1)]
TPSE477*010#0200	E	470	10	85	7	125	47	10	200	0.908	0.817	0.363	1[1)]
TPSV477*010#0040	V	470	10	85	7	125	47	10	40	2.500	2.250	1.000	1[1)]
TPSV477*010#0060	V	470	10	85	7	125	47	10	60	2.041	1.837	0.816	1[1)]
TPSV477*010#0100	V	470	10	85	7	125	47	10	100	1.581	1.423	0.632	1[1)]
TPSE687M010#0150V	E	680	10	85	7	125	68	18	150	1.049	0.944	0.420	3
TPSV687M010#0100V	V	680	10	85	7	125	68	18	100	1.581	1.423	0.632	3
16 Volt @ 85°C													
TPSA105*016#6200	A	1	16	85	10	125	0.5	4	6200	0.110	0.099	0.044	1
TPSA225*016#1800	A	2.2	16	85	10	125	0.5	6	1800	0.204	0.184	0.082	1
TPSA225*016#3500	A	2.2	16	85	10	125	0.5	6	3500	0.146	0.132	0.059	1
TPST225*016#2000	T	2.2	16	85	10	125	0.5	6	2000	0.200	0.180	0.080	1
TPSA335*016#3500	A	3.3	16	85	10	125	0.5	6	3500	0.146	0.132	0.059	1
TPSB335*016#2500	B	3.3	16	85	10	125	0.5	6	2500	0.184	0.166	0.074	1
TPSA475*016#2000	A	4.7	16	85	10	125	0.8	6	2000	0.194	0.174	0.077	1
TPSB475*016#0800	B	4.7	16	85	10	125	0.8	6	800	0.326	0.293	0.130	1
TPSB475*016#1500	B	4.7	16	85	10	125	0.8	6	1500	0.238	0.214	0.095	1
TPSA685*016#1500	A	6.8	16	85	10	125	1.1	6	1500	0.224	0.201	0.089	1
TPSB685*016#0600	B	6.8	16	85	10	125	1.1	6	600	0.376	0.339	0.151	1
TPSB685*016#1200	B	6.8	16	85	10	125	1.1	6	1200	0.266	0.240	0.106	1
TPSA106*016#1000	A	10	16	85	10	125	1.6	6	1000	0.274	0.246	0.110	1
TPSB106*016#0500	B	10	16	85	10	125	1.6	6	500	0.412	0.371	0.165	1
TPSB106*016#0800	B	10	16	85	10	125	1.6	6	800	0.326	0.293	0.130	1
TPSC106*016#0500	C	10	16	85	10	125	1.6	6	500	0.469	0.422	0.188	1
TPST106*016#0800	T	10	16	85	10	125	1.6	8	800	0.316	0.285	0.126	1
TPST106*016#1000	T	10	16	85	10	125	1.6	8	1000	0.283	0.255	0.113	1
TPSW106*016#0500	W	10	16	85	10	125	1.6	6	500	0.424	0.382	0.170	1
TPSW106*016#0600	W	10	16	85	10	125	1.6	6	600	0.387	0.349	0.155	1
TPSB156*016#0500	B	15	16	85	10	125	2.4	6	500	0.412	0.371	0.165	1
TPSB156*016#0800	B	15	16	85	10	125	2.4	6	800	0.326	0.293	0.130	1
TPSC156*016#0300	C	15	16	85	10	125	2.4	6	300	0.606	0.545	0.242	1
TPSC156*016#0700	C	15	16	85	10	125	2.4	6	700	0.396	0.357	0.159	1
TPSB226*016#0400	B	22	16	85	10	125	3.5	6	400	0.461	0.415	0.184	1
TPSB226*016#0600	B	22	16	85	10	125	3.5	6	600	0.376	0.339	0.151	1
TPSC226*016#0150	C	22	16	85	10	125	3.5	6	150	0.856	0.771	0.343	1
TPSC226*016#0250	C	22	16	85	10	125	3.5	6	250	0.663	0.597	0.265	1
TPSC226*016#0300	C	22	16	85	10	125	3.5	6	300	0.606	0.545	0.242	1
TPSC226*016#0375	C	22	16	85	10	125	3.5	6	375	0.542	0.487	0.217	1
TPSD226*016#0700	D	22	16	85	10	125	3.5	6	700	0.463	0.417	0.185	1[1)]
TPSW226*016#0500	W	22	16	85	10	125	3.5	6	500	0.424	0.382	0.170	1
TPSB336*016#0350	B	33	16	85	10	125	5.3	8	350	0.493	0.444	0.197	1
TPSB336*016#0500	B	33	16	85	10	125	5.3	8	500	0.412	0.371	0.165	1
TPSC336*016#0100	C	33	16	85	10	125	5.3	6	100	1.049	0.944	0.420	1
TPSC336*016#0150	C	33	16	85	10	125	5.3	6	150	0.856	0.771	0.343	1

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RATINGS & PART NUMBER REFERENCE

Part Number	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
TPSC336*016#0225	C	33	16	85	10	125	5.3	6	225	0.699	0.629	0.280	1
TPSC336*016#0300	C	33	16	85	10	125	5.3	6	300	0.606	0.545	0.242	1
TPSD336*016#0200	D	33	16	85	10	125	5.3	6	200	0.866	0.779	0.346	1[1)]
TPSW336*016#0140	W	33	16	85	10	125	5.3	6	140	0.802	0.722	0.321	1
TPSW336*016#0175	W	33	16	85	10	125	5.3	6	175	0.717	0.645	0.287	1
TPSW336*016#0250	W	33	16	85	10	125	5.3	6	250	0.600	0.540	0.240	1
TPSW336*016#0400	W	33	16	85	10	125	5.3	6	400	0.474	0.427	0.190	1
TPSW336*016#0500	W	33	16	85	10	125	5.3	6	500	0.424	0.382	0.170	1
TPSY336*016#0300	Y	33	16	85	10	125	5.3	6	300	0.645	0.581	0.258	1[1)]
TPSY336*016#0400	Y	33	16	85	10	125	5.3	6	400	0.559	0.503	0.224	1[1)]
TPSC476*016#0110	C	47	16	85	10	125	7.5	6	110	1.000	0.900	0.400	1
TPSC476*016#0350	C	47	16	85	10	125	7.5	6	350	0.561	0.505	0.224	1
TPSD476*016#0080	D	47	16	85	10	125	7.5	6	80	1.369	1.232	0.548	1[1)]
TPSD476*016#0100	D	47	16	85	10	125	7.5	6	100	1.225	1.102	0.490	1[1)]
TPSD476*016#0150	D	47	16	85	10	125	7.5	6	150	1.000	0.900	0.400	1[1)]
TPSD476*016#0200	D	47	16	85	10	125	7.5	6	200	0.866	0.779	0.346	1[1)]
TPSW476*016#0200	W	47	16	85	10	125	7.5	6	200	0.671	0.604	0.268	1
TPSX476*016#0180	X	47	16	85	10	125	7.5	6	180	0.745	0.671	0.298	1[1)]
TPSY476*016#0250	Y	47	16	85	10	125	7.5	6	250	0.707	0.636	0.283	1[1)]
TPSC686*016#0125	C	68	16	85	10	125	10.9	6	125	0.938	0.844	0.375	1
TPSC686*016#0200	C	68	16	85	10	125	10.9	6	200	0.742	0.667	0.297	1
TPSD686*016#0070	D	68	16	85	10	125	10.9	6	70	1.464	1.317	0.586	1[1)]
TPSD686*016#0100	D	68	16	85	10	125	10.9	6	100	1.225	1.102	0.490	1[1)]
TPSD686*016#0150	D	68	16	85	10	125	10.9	6	150	1.000	0.900	0.400	1[1)]
TPSF686*016#0200	F	68	16	85	10	125	10.9	10	200	0.707	0.636	0.283	1
TPSX686*016#0150	X	68	16	85	10	125	10.9	8	150	0.816	0.735	0.327	1[1)]
TPSY686*016#0150	Y	68	16	85	10	125	10.9	6	150	0.913	0.822	0.365	1[1)]
TPSY686*016#0200	Y	68	16	85	10	125	10.9	6	200	0.791	0.712	0.316	1[1)]
TPSY686*016#0250	Y	68	16	85	10	125	10.9	6	250	0.707	0.636	0.283	1[1)]
TPSC107*016#0200	C	100	16	85	10	125	16	8	200	0.742	0.667	0.297	1
TPSD107*016#0060	D	100	16	85	10	125	16	6	60	1.581	1.423	0.632	1[1)]
TPSD107*016#0100	D	100	16	85	10	125	16	6	100	1.225	1.102	0.490	1[1)]
TPSD107*016#0125	D	100	16	85	10	125	16	6	125	1.095	0.986	0.438	1[1)]
TPSD107*016#0150	D	100	16	85	10	125	16	6	150	1.000	0.900	0.400	1[1)]
TPSE107*016#0055	E	100	16	85	10	125	16	6	55	1.732	1.559	0.693	1[1)]
TPSE107*016#0100	E	100	16	85	10	125	16	6	100	1.285	1.156	0.514	1[1)]
TPSE107*016#0125	E	100	16	85	10	125	16	6	125	1.149	1.034	0.460	1[1)]
TPSE107*016#0150	E	100	16	85	10	125	16	6	150	1.049	0.944	0.420	1[1)]
TPSF107M016#0150	F	100	16	85	10	125	16	10	150	0.816	0.735	0.327	1
TPSF107M016#0200	F	100	16	85	10	125	16	10	200	0.707	0.636	0.283	1
TPSY107*016#0100	Y	100	16	85	10	125	16	8	100	1.118	1.006	0.447	1[1)]
TPSY107*016#0150	Y	100	16	85	10	125	16	8	150	0.913	0.822	0.365	1[1)]
TPSY107*016#0200	Y	100	16	85	10	125	16	8	200	0.791	0.712	0.316	1[1)]
TPSD157*016#0060	D	150	16	85	10	125	24	6	60	1.581	1.423	0.632	1[1)]
TPSD157*016#0085	D	150	16	85	10	125	24	6	85	1.328	1.196	0.531	1[1)]
TPSD157*016#0100	D	150	16	85	10	125	24	6	100	1.225	1.102	0.490	1[1)]
TPSD157*016#0125	D	150	16	85	10	125	24	6	125	1.095	0.986	0.438	1[1)]
TPSD157*016#0150	D	150	16	85	10	125	24	6	150	1.000	0.900	0.400	1[1)]
TPSE157*016#0050V	E	150	16	85	10	125	24	8	50	1.817	1.635	0.727	3
TPSE157*016#0100	E	150	16	85	10	125	24	8	100	1.285	1.156	0.514	1[1)]
TPSV157*016#0045	V	150	16	85	10	125	24	8	45	2.357	2.121	0.943	1[1)]
TPSV157*016#0075	V	150	16	85	10	125	24	8	75	1.826	1.643	0.730	1[1)]
TPSY157M016#0200	Y	150	16	85	10	125	24	15	200	0.791	0.712	0.316	1[1)]
TPSD227M016#0200V	D	220	16	85	10	125	35.2	10	200	0.866	0.779	0.346	3
TPSE227*016#0050V	E	220	16	85	10	125	35.2	10	50	1.817	1.635	0.727	3
TPSE227*016#0100	E	220	16	85	10	125	35.2	10	100	1.285	1.156	0.514	1[1)]
TPSE227*016#0150	E	220	16	85	10	125	35.2	10	150	1.049	0.944	0.420	1[1)]
TPSV227*016#0050	V	220	16	85	10	125	35.2	8	50	2.236	2.012	0.894	1[1)]
TPSV227*016#0075	V	220	16	85	10	125	35.2	8	75	1.826	1.643	0.730	1[1)]
TPSV227*016#0100	V	220	16	85	10	125	35.2	8	100	1.581	1.423	0.632	1[1)]
TPSV227*016#0150	V	220	16	85	10	125	35.2	8	150	1.291	1.162	0.516	1[1)]
TPSE337M016#0200	E	330	16	85	10	125	52.8	30	200	0.908	0.817	0.363	1[1)]
20 Volt @ 85°C													
TPSA105*020#3000	A	1	20	85	13	125	0.5	4	3000	0.158	0.142	0.063	1
TPSR105*020#6000	R	1	20	85	13	125	0.5	4	6000	0.096	0.086	0.038	1
TPSS105*020#6000	S	1	20	85	13	125	0.5	4	6000	0.104	0.094	0.042	1
TPST105*020#2000	T	1	20	85	13	125	0.5	4	2000	0.200	0.180	0.080	1
TPSA155*020#3000	A	1.5	20	85	13	125	0.5	6	3000	0.158	0.142	0.063	1
TPSA225*020#3000	A	2.2	20	85	13	125	0.5	6	3000	0.158	0.142	0.063	1
TPSB225*020#1700	B	2.2	20	85	13	125	0.5	6	1700	0.224	0.201	0.089	1
TPSA335*020#2500	A	3.3	20	85	13	125	0.7	6	2500	0.173	0.156	0.069	1
TPSB335*020#1300	B	3.3	20	85	13	125	0.7	6	1300	0.256	0.230	0.102	1
TPSA475*020#1800	A	4.7	20	85	13	125	0.9	6	1800	0.204	0.184	0.082	1
TPSB475*020#0750	B	4.7	20	85	13	125	0.9	6	750	0.337	0.303	0.135	1
TPSB475*020#1000	B	4.7	20	85	13	125	0.9	6	1000	0.292	0.262	0.117	1
TPSA685*020#1000	A	6.8	20	85	13	125	1.4	6	1000	0.274	0.246	0.110	1
TPSB685*020#0600	B	6.8	20	85	13	125	1.4	6	600	0.376	0.339	0.151	1
TPSB685*020#1000	B	6.8	20	85	13	125	1.4	6	1000	0.292	0.262	0.117	1
TPSC685*020#0700	C	6.8	20	85	13	125	1.4	6	700	0.396	0.357	0.159	1
TPSB106*020#0500	B	10	20	85	13	125	2	6	500	0.412	0.371	0.165	1
TPSB106*020#1000	B	10	20	85	13	125	2	6	1000	0.292	0.262	0.117	1

RATINGS & PART NUMBER REFERENCE

Part Number	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
TPSC106*020#0500	C	10	20	85	13	125	2	6	500	0.469	0.422	0.188	1
TPSC106*020#0700	C	10	20	85	13	125	2	6	700	0.396	0.357	0.159	1
TPSW106*020#0250	W	10	20	85	13	125	2	6	250	0.600	0.540	0.240	1
TPSW106*020#0500	W	10	20	85	13	125	2	6	500	0.424	0.382	0.170	1
TPSB156*020#0500	B	15	20	85	13	125	3	6	500	0.412	0.371	0.165	1
TPSC156*020#0400	C	15	20	85	13	125	3	6	400	0.524	0.472	0.210	1
TPSC156*020#0450	C	15	20	85	13	125	3	6	450	0.494	0.445	0.198	1
TPSB226*020#0400	B	22	20	85	13	125	4.4	6	400	0.461	0.415	0.184	1
TPSB226*020#0600	B	22	20	85	13	125	4.4	6	600	0.376	0.339	0.151	1
TPSC226*020#0100	C	22	20	85	13	125	4.4	6	100	1.049	0.944	0.420	1
TPSC226*020#0150	C	22	20	85	13	125	4.4	6	150	0.856	0.771	0.343	1
TPSC226*020#0400	C	22	20	85	13	125	4.4	6	400	0.524	0.472	0.210	1
TPSD226*020#0200	D	22	20	85	13	125	4.4	6	200	0.866	0.779	0.346	1[1)]
TPSD226*020#0300	D	22	20	85	13	125	4.4	6	300	0.707	0.636	0.283	1[1)]
TPSC336*020#0300	C	33	20	85	13	125	6.6	6	300	0.606	0.545	0.242	1
TPSD336*020#0100	D	33	20	85	13	125	6.6	6	100	1.225	1.102	0.490	1[1)]
TPSD336*020#0200	D	33	20	85	13	125	6.6	6	200	0.866	0.779	0.346	1[1)]
TPSD476*020#0075	D	47	20	85	13	125	9.4	6	75	1.414	1.273	0.566	1[1)]
TPSD476*020#0100	D	47	20	85	13	125	9.4	6	100	1.225	1.102	0.490	1[1)]
TPSD476*020#0200	D	47	20	85	13	125	9.4	6	200	0.866	0.779	0.346	1[1)]
TPSE476*020#0070	E	47	20	85	13	125	9.4	6	70	1.535	1.382	0.614	1[1)]
TPSE476*020#0125	E	47	20	85	13	125	9.4	6	125	1.149	1.034	0.460	1[1)]
TPSE476*020#0150	E	47	20	85	13	125	9.4	6	150	1.049	0.944	0.420	1[1)]
TPSE476*020#0200	E	47	20	85	13	125	9.4	6	200	0.908	0.817	0.363	1[1)]
TPSE476*020#0250	E	47	20	85	13	125	9.4	6	250	0.812	0.731	0.325	1[1)]
TPSX476*020#0200	X	47	20	85	13	125	9.4	6	200	0.707	0.636	0.283	1[1)]
TPSD686*020#0070	D	68	20	85	13	125	13.6	6	70	1.464	1.317	0.586	1[1)]
TPSD686*020#0150	D	68	20	85	13	125	13.6	6	150	1.000	0.900	0.400	1[1)]
TPSD686*020#0200	D	68	20	85	13	125	13.6	6	200	0.866	0.779	0.346	1[1)]
TPSD686*020#0300	D	68	20	85	13	125	13.6	6	300	0.707	0.636	0.283	1[1)]
TPSE686*020#0125	E	68	20	85	13	125	13.6	6	125	1.149	1.034	0.460	1[1)]
TPSE686*020#0150	E	68	20	85	13	125	13.6	6	150	1.049	0.944	0.420	1[1)]
TPSE686*020#0200	E	68	20	85	13	125	13.6	6	200	0.908	0.817	0.363	1[1)]
TPSY686*020#0200	Y	68	20	85	13	125	13.6	6	200	0.791	0.712	0.316	1[1)]
TPSD107*020#0085	D	100	20	85	13	125	20	6	85	1.328	1.196	0.531	1[1)]
TPSD107*020#0100	D	100	20	85	13	125	20	6	100	1.225	1.102	0.490	1[1)]
TPSD107*020#0150	D	100	20	85	13	125	20	6	150	1.000	0.900	0.400	1[1)]
TPSE107*020#0100	E	100	20	85	13	125	20	6	100	1.285	1.156	0.514	1[1)]
TPSE107*020#0150	E	100	20	85	13	125	20	6	150	1.049	0.944	0.420	1[1)]
TPSE107*020#0200	E	100	20	85	13	125	20	6	200	0.908	0.817	0.363	1[1)]
TPSV107*020#0060	V	100	20	85	13	125	20	8	60	2.041	1.837	0.816	1[1)]
TPSV107*020#0085	V	100	20	85	13	125	20	8	85	1.715	1.543	0.686	1[1)]
TPSV107*020#0100	V	100	20	85	13	125	20	8	100	1.581	1.423	0.632	1[1)]
TPSV107*020#0200	V	100	20	85	13	125	20	8	200	1.118	1.006	0.447	1[1)]
TPSV157*020#0080	V	150	20	85	13	125	30	8	80	1.768	1.591	0.707	1[1)]
25 Volt @ 85°C													
TPSA474*025#7000	A	0.47	25	85	17	125	0.5	4	7000	0.104	0.093	0.041	1
TPSA684*025#6000	A	0.68	25	85	17	125	0.5	4	6000	0.112	0.101	0.045	1
TPSA105*025#4000	A	1	25	85	17	125	0.5	4	4000	0.137	0.123	0.055	1
TPSR105*025#2500	R	1	25	85	17	125	0.5	4	2500	0.148	0.133	0.059	1
TPSR105*025#4000	R	1	25	85	17	125	0.5	4	4000	0.117	0.106	0.047	1
TPSA155*025#3000	A	1.5	25	85	17	125	0.5	6	3000	0.158	0.142	0.063	1
TPSB155*025#1800	B	1.5	25	85	17	125	0.5	6	1800	0.217	0.196	0.087	1
TPSA225*025#2500	A	2.2	25	85	17	125	0.6	6	2500	0.173	0.156	0.069	1
TPSB225*025#0900	B	2.2	25	85	17	125	0.6	6	900	0.307	0.277	0.123	1
TPSB225*025#1200	B	2.2	25	85	17	125	0.6	6	1200	0.266	0.240	0.106	1
TPSB225*025#2500	B	2.2	25	85	17	125	0.6	6	2500	0.184	0.166	0.074	1
TPSA335*025#1000	A	3.3	25	85	17	125	0.8	6	1000	0.274	0.246	0.110	1
TPSA335*025#1500	A	3.3	25	85	17	125	0.8	6	1500	0.224	0.201	0.089	1
TPSB335*025#0750	B	3.3	25	85	17	125	0.8	6	750	0.337	0.303	0.135	1
TPSB335*025#1500	B	3.3	25	85	17	125	0.8	6	1500	0.238	0.214	0.095	1
TPSB335*025#2000	B	3.3	25	85	17	125	0.8	6	2000	0.206	0.186	0.082	1
TPSB475*025#0700	B	4.7	25	85	17	125	1.2	6	700	0.348	0.314	0.139	1
TPSB475*025#0900	B	4.7	25	85	17	125	1.2	6	900	0.307	0.277	0.123	1
TPSB475*025#1500	B	4.7	25	85	17	125	1.2	6	1500	0.238	0.214	0.095	1
TPSC475*025#0700	C	4.7	25	85	17	125	1.2	6	700	0.396	0.357	0.159	1
TPSB685*025#0700	B	6.8	25	85	17	125	1.7	6	700	0.348	0.314	0.139	1
TPSC685*025#0500	C	6.8	25	85	17	125	1.7	6	500	0.469	0.422	0.188	1
TPSC685*025#0600	C	6.8	25	85	17	125	1.7	6	600	0.428	0.385	0.171	1
TPSC685*025#0700	C	6.8	25	85	17	125	1.7	6	700	0.396	0.357	0.159	1
TPSB106*025#1800	B	10	25	85	17	125	2.5	6	1800	0.217	0.196	0.087	1
TPSC106*025#0300	C	10	25	85	17	125	2.5	6	300	0.606	0.545	0.242	1
TPSC106*025#0500	C	10	25	85	17	125	2.5	6	500	0.469	0.422	0.188	1
TPSD106*025#0500	D	10	25	85	17	125	2.5	6	500	0.548	0.493	0.219	1[1)]
TPSC156*025#0220	C	15	25	85	17	125	3.8	6	220	0.707	0.636	0.283	1
TPSC156*025#0300	C	15	25	85	17	125	3.8	6	300	0.606	0.545	0.242	1
TPSD156*025#0100	D	15	25	85	17	125	3.8	6	100	1.225	1.102	0.490	1[1)]
TPSD156*025#0300	D	15	25	85	17	125	3.8	6	300	0.707	0.636	0.283	1[1)]
TPSC226*025#0275	C	22	25	85	17	125	5.5	6	275	0.632	0.569	0.253	1
TPSC226*025#0400	C	22	25	85	17	125	5.5	6	400	0.524	0.472	0.210	1
TPSD226*025#0100	D	22	25	85	17	125	5.5	6	100	1.225	1.102	0.490	1[1)]

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RATINGS & PART NUMBER REFERENCE

Part Number	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
TPSD226*025#0200	D	22	25	85	17	125	5.5	6	200	0.866	0.779	0.346	1[1)]
TPSD226*025#0300	D	22	25	85	17	125	5.5	6	300	0.707	0.636	0.283	1[1)]
TPSF226*025#0300	F	22	25	85	17	125	5.5	6	300	0.577	0.520	0.231	1
TPSC336*025#0400	C	33	25	85	17	125	8.3	6	400	0.524	0.472	0.210	1
TPSD336*025#0100	D	33	25	85	17	125	8.3	6	100	1.225	1.102	0.490	1[1)]
TPSD336*025#0200	D	33	25	85	17	125	8.3	6	200	0.866	0.779	0.346	1[1)]
TPSD336*025#0300	D	33	25	85	17	125	8.3	6	300	0.707	0.636	0.283	1[1)]
TPSE336*025#0100	E	33	25	85	17	125	8.3	6	100	1.285	1.156	0.514	1[1)]
TPSE336*025#0175	E	33	25	85	17	125	8.3	6	175	0.971	0.874	0.388	1[1)]
TPSE336*025#0200	E	33	25	85	17	125	8.3	6	200	0.908	0.817	0.363	1[1)]
TPSE336*025#0300	E	33	25	85	17	125	8.3	6	300	0.742	0.667	0.297	1[1)]
TPSF336*025#0150	F	33	25	85	17	125	8.3	6	150	0.816	0.735	0.327	1[1)]
TPSF336*025#0200	F	33	25	85	17	125	8.3	6	200	0.707	0.636	0.283	1
TPSF336*025#0400	F	33	25	85	17	125	8.3	6	400	0.500	0.450	0.200	1
TPSY336*025#0200	Y	33	25	85	17	125	8.3	6	200	0.791	0.712	0.316	1[1)]
TPSD476*025#0125	D	47	25	85	17	125	11.8	6	125	1.095	0.986	0.438	1[1)]
TPSD476*025#0150	D	47	25	85	17	125	11.8	6	150	1.000	0.900	0.400	1[1)]
TPSD476*025#0250	D	47	25	85	17	125	11.8	6	250	0.775	0.697	0.310	1[1)]
TPSE476*025#0080	E	47	25	85	17	125	11.8	6	80	1.436	1.293	0.574	1[1)]
TPSE476*025#0100	E	47	25	85	17	125	11.8	6	100	1.285	1.156	0.514	1[1)]
TPSE476*025#0125	E	47	25	85	17	125	11.8	6	125	1.149	1.034	0.460	1[1)]
TPSY476*025#0250	Y	47	25	85	17	125	11.8	6	250	0.707	0.636	0.283	1[1)]
TPSD686*025#0150	D	68	25	85	17	125	17	6	150	1.000	0.900	0.400	1[1)]
TPSD686*025#0200	D	68	25	85	17	125	17	6	200	0.866	0.779	0.346	1[1)]
TPSD686*025#0300	D	68	25	85	17	125	17	6	300	0.707	0.636	0.283	1[1)]
TPSE686*025#0125	E	68	25	85	17	125	17	6	125	1.149	1.034	0.460	1[1)]
TPSE686*025#0200	E	68	25	85	17	125	17	6	200	0.908	0.817	0.363	1[1)]
TPSV686*025#0080	V	68	25	85	17	125	17	6	80	1.768	1.591	0.707	1[1)]
TPSV686*025#0095	V	68	25	85	17	125	17	6	95	1.622	1.460	0.649	1[1)]
TPSV686*025#0150	V	68	25	85	17	125	17	6	150	1.291	1.162	0.516	1[1)]
TPSV686*025#0200	V	68	25	85	17	125	17	6	200	1.118	1.006	0.447	1[1)]
TPSE107*025#0150	E	100	25	85	17	125	25	10	150	1.049	0.944	0.420	1[1)]
TPSV107*025#0100	V	100	25	85	17	125	25	8	100	1.581	1.423	0.632	1[1)]
TPSV157M025#0150	V	150	25	85	17	125	37.5	10	150	1.291	1.162	0.516	1[1)]
35 Volt @ 85°C													
TPSA224*035#6000	A	0.22	35	85	23	125	0.5	4	6000	0.112	0.101	0.045	1
TPSA334*035#6000	A	0.33	35	85	23	125	0.5	4	6000	0.112	0.101	0.045	1
TPSA474*035#6000	A	0.47	35	85	23	125	0.5	4	6000	0.112	0.101	0.045	1
TPSB474*035#4000	B	0.47	35	85	23	125	0.5	4	4000	0.146	0.131	0.058	1
TPSA684*035#6000	A	0.68	35	85	23	125	0.5	4	6000	0.112	0.101	0.045	1
TPSA105*035#3000	A	1	35	85	23	125	0.5	4	3000	0.158	0.142	0.063	1
TPSB105*035#2000	B	1	35	85	23	125	0.5	4	2000	0.206	0.186	0.082	1
TPSA155*035#3000	A	1.5	35	85	23	125	0.5	6	3000	0.158	0.142	0.063	1
TPSB155*035#2500	B	1.5	35	85	23	125	0.5	6	2500	0.184	0.166	0.074	1
TPSA225*035#1500	A	2.2	35	85	23	125	0.8	6	1500	0.224	0.201	0.089	1
TPSB225*035#0750	B	2.2	35	85	23	125	0.8	6	750	0.337	0.303	0.135	1
TPSB225*035#1500	B	2.2	35	85	23	125	0.8	6	1500	0.238	0.214	0.095	1
TPSB225*035#2000	B	2.2	35	85	23	125	0.8	6	2000	0.206	0.186	0.082	1
TPSC225*035#1000	C	2.2	35	85	23	125	0.8	6	1000	0.332	0.298	0.133	1
TPSB335*035#1000	B	3.3	35	85	23	125	1.2	6	1000	0.292	0.262	0.117	1
TPSC335*035#0700	C	3.3	35	85	23	125	1.2	6	700	0.396	0.357	0.159	1
TPSB475*035#0700	B	4.7	35	85	23	125	1.6	6	700	0.348	0.314	0.139	1
TPSB475*035#1500	B	4.7	35	85	23	125	1.6	6	1500	0.238	0.214	0.095	1
TPSC475*035#0600	C	4.7	35	85	23	125	1.6	6	600	0.428	0.385	0.171	1
TPSD475*035#0700	D	4.7	35	85	23	125	1.6	6	700	0.463	0.417	0.185	1[1)]
TPSC685*035#0350	C	6.8	35	85	23	125	2.4	6	350	0.561	0.505	0.224	1
TPSD685*035#0150	D	6.8	35	85	23	125	2.4	6	150	1.000	0.900	0.400	1[1)]
TPSD685*035#0400	D	6.8	35	85	23	125	2.4	6	400	0.612	0.551	0.245	1[1)]
TPSD685*035#0500	D	6.8	35	85	23	125	2.4	6	500	0.548	0.493	0.219	1[1)]
TPSC106*035#0600	C	10	35	85	23	125	3.5	6	600	0.428	0.385	0.171	1
TPSD106*035#0125	D	10	35	85	23	125	3.5	6	125	1.095	0.986	0.438	1[1)]
TPSD106*035#0300	D	10	35	85	23	125	3.5	6	300	0.707	0.636	0.283	1[1)]
TPSE106*035#0100V	E	10	35	85	23	125	3.5	6	100	1.285	1.156	0.514	3
TPSE106*035#0150V	E	10	35	85	23	125	3.5	6	150	1.049	0.944	0.420	3
TPSE106*035#0200	E	10	35	85	23	125	3.5	6	200	0.908	0.817	0.363	1[1)]
TPSY106*035#0250	Y	10	35	85	23	125	3.5	6	250	0.707	0.636	0.283	1[1)]
TPSC156*035#0350	C	15	35	85	23	125	5.3	6	350	0.561	0.505	0.224	1
TPSC156*035#0450	C	15	35	85	23	125	5.3	6	450	0.494	0.445	0.198	1
TPSD156*035#0100	D	15	35	85	23	125	5.3	6	100	1.225	1.102	0.490	1[1)]
TPSD156*035#0300	D	15	35	85	23	125	5.3	6	300	0.707	0.636	0.283	1[1)]
TPSY156*035#0250	Y	15	35	85	23	125	5.3	6	250	0.707	0.636	0.283	1[1)]
TPSD226*035#0125	D	22	35	85	23	125	7.7	6	125	1.095	0.986	0.438	1[1)]
TPSD226*035#0200	D	22	35	85	23	125	7.7	6	200	0.866	0.779	0.346	1[1)]
TPSD226*035#0300	D	22	35	85	23	125	7.7	6	300	0.707	0.636	0.283	1[1)]
TPSD226*035#0400	D	22	35	85	23	125	7.7	6	400	0.612	0.551	0.245	1[1)]
TPSE226*035#0125	E	22	35	85	23	125	7.7	6	125	1.149	1.034	0.460	1[1)]
TPSE226*035#0200	E	22	35	85	23	125	7.7	6	200	0.908	0.817	0.363	1[1)]
TPSE226*035#0300	E	22	35	85	23	125	7.7	6	300	0.742	0.667	0.297	1[1)]
TPSY226*035#0200	Y	22	35	85	23	125	7.7	6	200	0.791	0.712	0.316	1[1)]
TPSD336*035#0200	D	33	35	85	23	125	11.6	6	200	0.866	0.779	0.346	1[1)]
TPSD336*035#0300	D	33	35	85	23	125	11.6	6	300	0.707	0.636	0.283	1[1)]

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RATINGS & PART NUMBER REFERENCE

Part Number	Case Size	Capacitance (µF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (µA)	DF Max. (%)	ESR Max. @ 100kHz (mΩ)	100kHz RMS Current (A)			MSL
										25°C	85°C	125°C	
TPSE336*035#0100	E	33	35	85	23	125	11.6	6	100	1.285	1.156	0.514	1[1)]
TPSE336*035#0250	E	33	35	85	23	125	11.6	6	250	0.812	0.731	0.325	1[1)]
TPSE336*035#0300	E	33	35	85	23	125	11.6	6	300	0.742	0.667	0.297	1[1)]
TPSV336*035#0200	V	33	35	85	23	125	11.6	6	200	1.118	1.006	0.447	1[1)]
TPSD476*035#0300V	D	47	35	85	23	125	16.5	6	300	0.707	0.636	0.283	3
TPSE476*035#0200	E	47	35	85	23	125	16.5	6	200	0.908	0.817	0.363	1[1)]
TPSE476*035#0250	E	47	35	85	23	125	16.5	6	250	0.812	0.731	0.325	1[1)]
TPSV476*035#0150	V	47	35	85	23	125	16.5	6	150	1.291	1.162	0.516	1[1)]
TPSV476*035#0200	V	47	35	85	23	125	16.5	6	200	1.118	1.006	0.447	1[1)]
TPSV686*035#0150	V	68	35	85	23	125	23.8	6	150	1.291	1.162	0.516	1[1)]
TPSV686*035#0200	V	68	35	85	23	125	23.8	6	200	1.118	1.006	0.447	1[1)]
50 Volt @ 85°C													
TPSA154*050#9000	A	0.15	50	85	33	125	0.5	4	9000	0.091	0.082	0.037	1
TPSA224*050#7000	A	0.22	50	85	33	125	0.5	4	7000	0.104	0.093	0.041	1
TPSA334*050#7000	A	0.33	50	85	33	125	0.5	4	7000	0.104	0.093	0.041	1
TPSA474*050#6500	A	0.47	50	85	33	125	0.5	4	6500	0.107	0.097	0.043	1
TPSB474*050#6000	B	0.47	50	85	33	125	0.5	4	6000	0.119	0.107	0.048	1
TPSC474*050#2300	C	0.47	50	85	33	125	0.5	4	2300	0.219	0.197	0.087	1
TPSB684*050#4000	B	0.68	50	85	33	125	0.5	4	4000	0.146	0.131	0.058	1
TPSB105*050#3000	B	1	50	85	33	125	0.5	6	3000	0.168	0.151	0.067	1
TPSC105*050#2500	C	1	50	85	33	125	0.5	4	2500	0.210	0.189	0.084	1
TPSC155*050#1500	C	1.5	50	85	33	125	0.8	6	1500	0.271	0.244	0.108	1
TPSC155*050#2000	C	1.5	50	85	33	125	0.8	6	2000	0.235	0.211	0.094	1
TPSC225*050#1500	C	2.2	50	85	33	125	1.1	8	1500	0.271	0.244	0.108	1
TPSD225*050#1200	D	2.2	50	85	33	125	1.1	6	1200	0.354	0.318	0.141	1[1)]
TPSC335*050#1000	C	3.3	50	85	33	125	1.6	6	1000	0.332	0.298	0.133	1
TPSD335*050#0800	D	3.3	50	85	33	125	1.7	6	800	0.433	0.390	0.173	1[1)]
TPSC475*050#0800	C	4.7	50	85	33	125	2.4	6	800	0.371	0.334	0.148	1
TPSD475*050#0250	D	4.7	50	85	33	125	2.4	6	250	0.775	0.697	0.310	1[1)]
TPSD475*050#0300	D	4.7	50	85	33	125	2.4	6	300	0.707	0.636	0.283	1[1)]
TPSD475*050#0500	D	4.7	50	85	33	125	2.4	6	500	0.548	0.493	0.219	1[1)]
TPSD475*050#0700	D	4.7	50	85	33	125	2.4	6	700	0.463	0.417	0.185	1[1)]
TPSX475*050#0500V	X	4.7	50	85	33	125	2.4	6	500	0.447	0.402	0.179	3
TPSD685*050#0200	D	6.8	50	85	33	125	3.4	6	200	0.866	0.779	0.346	1[1)]
TPSD685*050#0300	D	6.8	50	85	33	125	3.4	6	300	0.707	0.636	0.283	1[1)]
TPSD685*050#0500	D	6.8	50	85	33	125	3.4	6	500	0.548	0.493	0.219	1[1)]
TPSD685*050#0600	D	6.8	50	85	33	125	3.4	6	600	0.500	0.450	0.200	1[1)]
TPSD106*050#0500	D	10	50	85	33	125	5	6	500	0.548	0.493	0.219	1[1)]
TPSE106*050#0250	E	10	50	85	33	125	5	6	250	0.812	0.731	0.325	1[1)]
TPSE106*050#0300	E	10	50	85	33	125	5	6	300	0.742	0.667	0.297	1[1)]
TPSE106*050#0400	E	10	50	85	33	125	5	6	400	0.642	0.578	0.257	1[1)]
TPSE106*050#0500	E	10	50	85	33	125	5	6	500	0.574	0.517	0.230	1[1)]
TPSE156*050#0250	E	15	50	85	33	125	7.5	6	250	0.812	0.731	0.325	1[1)]
TPSV156*050#0250	V	15	50	85	33	125	7.5	6	250	1.000	0.900	0.400	1[1)]

1[1)] –Dry pack option (see How to order) is recommended for reduction of stress during soldering. Dry pack parts are treated as MSL 3.
For AEC-Q200 availability, please contact KYOCERA 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 253.
NOTE: KYOCERA AVX reserves the right to supply higher voltage ratings or tighter tolerance part in the same case size, to the same reliability standards.

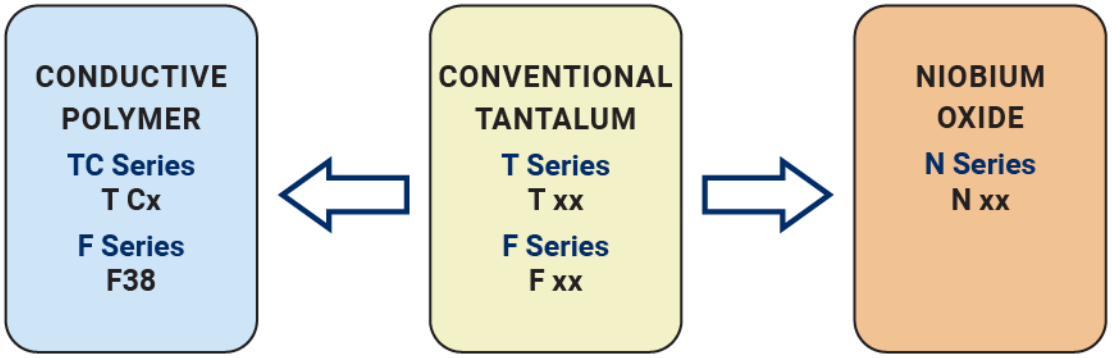
QUALIFICATION TABLE

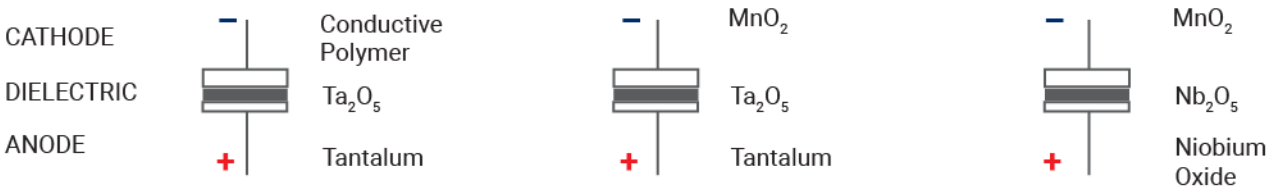
TEST	TPS series (Temperature range -55°C to +125°C)										
	Condition			Characteristics							
Endurance	Apply rated voltage (Ur) at 85°C and / or category voltage (Uc) at 125°C for 2000 hours through a circuit impedance of ≤0.1Ω/V. Stabilize at room temperature for 1-2 hours before measuring.			Visual examination	no visible damage						
				DCL	1.5 x initial limit						
				ΔC/C	within ±10% of initial value						
				DF	initial limit						
				ESR	1.25 x initial limit						
Humidity	Store at 65°C and 95% relative humidity for 500 hours, with no applied voltage. Stabilize at room temperature and humidity for 1-2 hours before measuring.			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	+20	15	DCL	IL*	n/a	IL*	10 x IL*	12.5 x IL*	IL*	
	2	-55	15	ΔC/C	n/a	+0/-10%	±5%	+10/-0%	+12/-0%	±5%	
	3	+20	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	IL*	
	4	+85	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*	
	5	+125	15								
	6	+20	15								
Surge Voltage	Apply 1.3x category voltage (Uc) at 125°C for 1000 cycles of duration 6 min (30 sec charge, 5 min 30 sec discharge) through a charge / discharge resistance of 1000Ω			Visual examination	no visible damage						
				DCL	initial limit						
				ΔC/C	within ±5% of initial value						
				DF	initial limit						
				ESR	1.25 x initial limit						
Mechanical Shock	MIL-STD-202, Method 213, Condition C			Visual examination	no visible damage						
				DCL	initial limit						
				ΔC/C	within ±5% of initial value						
				DF	initial limit						
				ESR	initial limit						
Vibration	MIL-STD-202, Method 204, Condition D			Visual examination	no visible damage						
				DCL	initial limit						
				ΔC/C	within ±5% of initial value						
				DF	initial limit						
				ESR	initial limit						

*Initial Limit

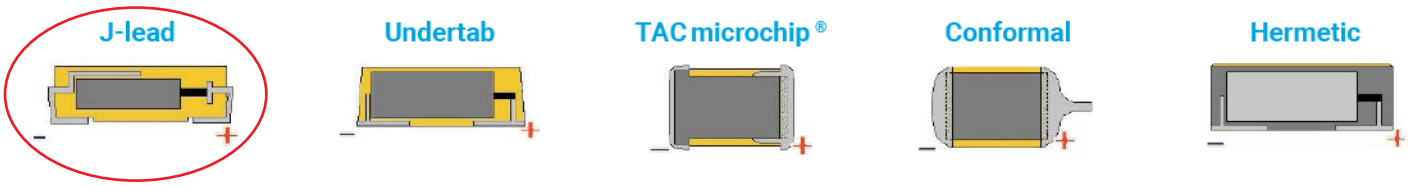
The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

SOLID ELECTROLYTIC CAPACITOR ROADMAP

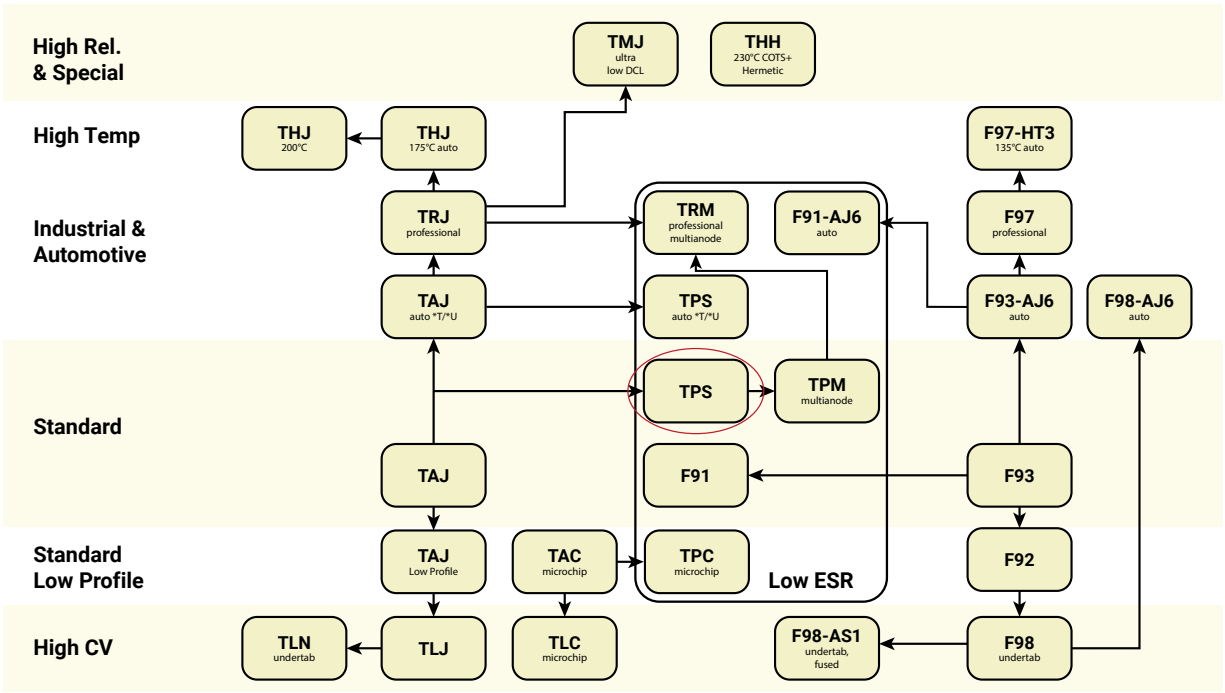




FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP : CONVENTIONAL SMD MnO_2



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