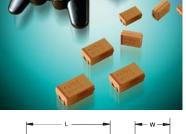
Low ESR







FEATURES

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

LEAD-FREE LEAD-FREE COMPATIBLE COMPONENT



SnPb termination option is not RoHS compliant.

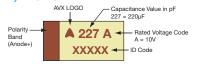
APPLICATIONS

• General medium power DC/DC convertors

CASE DIMENSIONS: millimeters (inches)

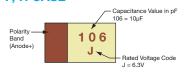
Code	EIA	EIA	L±0.20	W+0.20 (0.008)	H+0.20 (0.008)	W₁±0.20	A+0.30 (0.012)	S Min.
Ouc	Code	Metric	(800.0)	-0.10 (0.004)	-0.10 (0.004)	(0.008)	-0.20 (0.008)	O IVIIII.
Α	1206	3216-18	3.20 (0.126)	1.60 (0.063)	1.60 (0.063)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
В	1210	3528-21	3.50 (0.138)	2.80 (0.110)	1.90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

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



P, R CASE

MARKING



HOW TO ORDER

above

TPS C 107 Type **Case Size**

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

M

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

Rated DC Voltage 002 = 2.5Vdc 004 = 4Vdc 006 = 6.3 Vdc010 = 10 Vdc016 = 16 Vdc

020 = 20 Vdc025 = 25 Vdc 025 = 25 Vdc 035 = 35 Vdc050 = 50 Vdc R

Packaging R = Pure Tin 7" Reel S = Pure Tin 13" Reel A = Gold Plating 7" Reel B = Gold Plating 13" Reel
H = Tin Lead 7" Reel
(Contact Manufacturer)

K = Tin Lead 13" Reel (Contact Manufacturer) H, K = Non RoHS

0100

ESR in $m\Omega$

Additional characters may be added for special requirements

V = Dry pack Option (selected codes only)

TECHNICAL SPECIFICATIONS

Technical Data:		All te	echnical d	ata relate	to an am	bient ten	perature	of +25°C			
Capacitance Range:		0.15	μF to 15	00 μF							
Capacitance Tolerance:		±109	%; ±20%								
Rated Voltage (V _R)	≤ +85°C:	2.5	4	6.3	10	16	20	25	35	50	П
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	Т
Surge Voltage (V _S)	≤ +125°C:	2.2	3.4	5	8	13	16	20	28	40	П
Temperature Range:		-55°	C to +12	5°C							
Environmental Classification:		55/1	25/56 (IE	C 68-2)							
Reliability:		1% p	oer 1000	hours at 8	35°C, V _R v	with 0.1Ω	√ series	impedano	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				Rated \	Voltage DC (V _R) to	o 85°C			
μF	Code	2.5V (e)	4V (G)	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.15	154	, ,	,		. ,	. ,	,	, ,	. ,	A(9000)
0.22	224								A(6000)	A(7000)
0.33	334								A(6000)	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(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)	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)	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) ^M C(75,100,150,200) D(50,65,80,100,125, 150), E(125) W(150) X(85,150,200) Y(100,150,200)	C(200) D(60,100,125,150) E(55,100,125,150) F(150,200) ^M Y(100,150,200)	D(85,100,150) E(100,150,200) V(60,85,100,200)	E(150) ^M , V(100)		
150	157	B(150)	B(250) C(70,80)	C(50,90,150,200,250) D(50,125), Y(40,50)	C(150), D(50,85,100), E(100), F(200), X(100) ^M Y(100,150,200)	D(60,85,100,125,150) E(100), V(45,75) Y(200) ^{M)}	V(80)	V(150) [™]		
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) ^M				
470	477	D(35) F(200) Y(100)	D(45,100) E(35,45,100)	D(45,60,100,200) E(45,50,60,100,200) V(40,55,100), Y(150)	E(45,50,60,100,200) V(40,60,100)					
680	687	D(35,50) E(35,50) Y(100)	D(45,60,100) E(40,60,100)	E(45,60,100) V(35,40,50)						
1000	108	E(30,40) Y(100) ^M	E(40,60) V(25,35,40,50)	E(100) ^M , V(40,50) ^M						
1500	158	D(100) E(50) V(30,40) ^M	E(50,75) V(50,75) ^M							

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

Released codes (M tolerance only)

Engineering samples - please contact manufacturer

*Codes under development - subject to change

ESR limits quoted in brackets (milliohms)

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



Low ESR



TPSB107*002#0200 B 10 TPSB157*002#0150 B 22 TPSB227*002#0150 B 22 TPSB227*002#0200 B 22 TPSB227*002#0040 D 22 TPSD227*002#0045 D 22 TPSD27*002#0045 D 22 TPSD477*002#0035 D 43 TPSD477*002#0000 F 43 TPSD477*002#0000 F 43 TPSD477*002#0000 F 43 TPSD687*002#0050 D 66 TPSD687*002#0050 D 66 TPSE687*002#0050 E 66 TPSY687*002#0050 E 10 TPSE108*002#0030 E 10 TPSE108*002#0030 E 10 TPSP108*002#0030 E 10 TPSP108*002#0040 E 10 TPSP108*002#0040 E 10 TPSP158*002#0040 E 10 TPSP158*002#0040 D 15 TPSP158*002#0050 B 15 TPSP158*002#0050 E 15 TPSV158M002#0040 V 15 TPSP158*002#0050 B 10 TPSP158*002#0050 B 10 TPSP108*004#0300 R 1 TPSR106*004#0300 B 10 TPSB107*004#0500 B 10 TPSB107*004#0050 D 22 TPSD227*004#0000 D 33 TPSD337*004#0000 D 66 TPSD687*004#0000 D 66 TPSE108*004#0000 D 66 TP	citance	Rated	Rated	Category	Category	DCL	DF	ESR	MOL	100kHz	z RMS Cur	rent (A)
TPSB157*002#0150 B 15 TPSB227*002#0150 B 22 TPSB227*002#0200 B 22 TPSB227*002#0040 B 22 TPSB227*002#0040 D 22 TPSY337*002#0040 Y 33 TPSD477*002#0035 D 43 TPSD477*002#0035 D 43 TPSP477*002#0035 D 43 TPSP477*002#0035 D 68 TPSD687*002#0035 D 68 TPSD687*002#0035 D 68 TPSD687*002#0035 E 68 TPSE687*002#0050 E 68 TPSE687*002#0050 E 68 TPSE687*002#0050 E 68 TPSE687*002#0050 E 68 TPSE687*002#0030 E 10 TPSE108*002#0030 E 10 TPSE108*002#0030 E 10 TPSP108*002#0040 E 10 TPSY108M002#0100 Y 10 TPSD158*002#0040 E 10 TPSY158M002#0040 V 15 TPSP158*002#0040 D 15 TPSP158*002#0040 D 15 TPSP158*002#0040 D 15 TPSP158*002#0040 V 15 TPSP158*002#0050 E 15 TPSV158M002#0040 V 15 TPSP158*002#0050 B 16 TPSP158*002#0050 B 16 TPSP158*002#0050 B 16 TPSP158*002#0050 B 16 TPSP158*004#0350 B 16 TPSB107*004#0500 B 16 TPSB107*004#0050 B 16 TPSB107*004#0050 B 16 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD337*004#0050 D 33 TPSB37*004#0050 D 33 TPSB37*004#0050 D 33 TPSB37*004#0050 D 33 TPSB37*004#0050 D 33 TPSD37*004#0050 D 33 TPSD37*004#0060 D 33 TPSD37*004#0	μF)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μA) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C
TPSB157*002#0150 B 15 TPSB227*002#0150 B 22 TPSB227*002#0200 B 22 TPSB227*002#0040 B 22 TPSB227*002#0040 D 22 TPSY337*002#0040 Y 33 TPSD477*002#0035 D 43 TPSD477*002#0035 D 43 TPSP477*002#0035 D 43 TPSP477*002#0035 D 68 TPSD687*002#0035 D 68 TPSD687*002#0035 D 68 TPSD687*002#0035 E 68 TPSE687*002#0050 E 68 TPSE687*002#0050 E 68 TPSE687*002#0050 E 68 TPSE687*002#0050 E 68 TPSE687*002#0030 E 10 TPSE108*002#0030 E 10 TPSE108*002#0030 E 10 TPSP108*002#0040 E 10 TPSY108M002#0100 Y 10 TPSD158*002#0040 E 10 TPSY158M002#0040 V 15 TPSP158*002#0040 D 15 TPSP158*002#0040 D 15 TPSP158*002#0040 D 15 TPSP158*002#0040 V 15 TPSP158*002#0050 E 15 TPSV158M002#0040 V 15 TPSP158*002#0050 B 16 TPSP158*002#0050 B 16 TPSP158*002#0050 B 16 TPSP158*002#0050 B 16 TPSP158*004#0350 B 16 TPSB107*004#0500 B 16 TPSB107*004#0050 B 16 TPSB107*004#0050 B 16 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD337*004#0050 D 33 TPSB37*004#0050 D 33 TPSB37*004#0050 D 33 TPSB37*004#0050 D 33 TPSB37*004#0050 D 33 TPSD37*004#0050 D 33 TPSD37*004#0060 D 33 TPSD37*004#0					lt @ 85°C							
TPSB227*002#0150 B 22 TPSB227*002#0200 B 22 TPSB227*002#0600 B 22 TPSD227*002#0045 D 22 TPSD27*002#0045 D 22 TPSD477*002#0035 D 43 TPSD477*002#0035 D 43 TPSP477*002#0100 Y 47 TPSD687*002#0035 D 66 TPSC687*002#0035 D 66 TPSC687*002#0035 E 66 TPSC687*002#0035 E 66 TPSC687*002#0030 E 10 TPSY687*002#0100 Y 66 TPSC687*002#0030 E 10 TPSC188*002#0030 E 10 TPSC188*002#0030 E 10 TPSC188*002#0030 E 10 TPSC188*002#0030 V 15 TPSC188*002#0040 E 10 TPSC188*002#0040 V 10 TPSD158*002#0040 V 15 TPSC188*002#0040 V 15 TPSC188*004#0350 B 10 TPSC188*004#0040 D 22 TPSC188*004#0040 D 23 TPSC188*004#0040 D 23 TPSC188*004#0040 D 23 TPSC188*004#0040 D 33 TPSC188*004#0040 D 34 T	00	2.5	85	1.7	125	2.5	8	200	1	0.652	0.587	0.261
TPSB227*002#0200 B 22 TPSB227*002#0600 B 22 TPSB227*002#0600 B 22 TPSD227*002#0045 D 22 TPSY337*002#0040 Y 33 TPSD477*002#0035 D 41 TPSP477*002#0200 F 42 TPSY477*002#0200 F 43 TPSP687*002#0035 D 66 TPSD687*002#0035 D 66 TPSD687*002#0035 E 66 TPSE687*002#0035 E 66 TPSE687*002#0050 E 66 TPSF687*002#0050 E 10 TPSE108*002#0040 E 10 TPSF108*002#0040 E 10 TPSY108M002#0100 Y 10 TPSS158*002#0100 D 15 TPSE158*002#0050 E 15 TPSV158M002#0100 D 15 TPSE158*002#0050 E 15 TPSV158M002#0040 V 15 TPSE158*002#0050 B 16 TPSN158M002#0040 V 15 TPSS158*002#0050 B 16 TPSN17*004#0500 A 4 TPSB107*004#0500 B 16 TPSN17*004#0500 B 16 TPSN17*004#0050 D 22 TPSY227*004#0050 D 22 TPSY227*004#0050 D 22 TPSY227*004#0050 D 22 TPSN227*004#0050 D 22 TPSN237*004#0050 D 33 TPSD37*004#0060 D 66 TPSD887*004#0040	50	2.5	85	1.7	125	3	10	150	1	0.753	0.677	0.301
TPSB227*002#0600 B 22 TPSD227*002#0045 D 22 TPSY337*002#0040 Y 33 TPSD477*002#0035 D 43 TPSP477*002#0200 F 43 TPSY477*002#0100 Y 45 TPSY477*002#0100 Y 45 TPSD687*002#0050 D 66 TPSE687*002#0050 D 66 TPSE687*002#0050 E 66 TPSE687*002#0050 E 66 TPSY687*002#0100 Y 66 TPSY687*002#0100 Y 66 TPSY108*002#0100 Y 10 TPSD108*002#0100 Y 10 TPSD158*002#0100 T 10 TPSD158*002#0100 D 15 TPSE108*002#0040 E 10 TPSY108*002#0100 D 15 TPSE158*002#0040 U 15 TPSU158*002#0040 V 15 TPSU158*004#0050 B 10 TPSD15*004#0050 B 10 TPSD15*004#0050 B 10 TPSD15*004#0050 B 10 TPSD15*004#0040 D 22 TPSU27*004#0040 D 22 TPSU27*004#00	20	2.5	85	1.7	125	4.4	16	150	1	0.753	0.677	0.301
TPSD227*002#0045 D 22 TPSY337*002#0040 Y 33 TPSD477*002#0035 D 43 TPSF477*002#0100 F 43 TPSD687*002#0100 Y 43 TPSD687*002#0100 F 43 TPSD687*002#0035 D 66 TPSD687*002#0035 D 66 TPSD687*002#0035 D 66 TPSD687*002#0035 E 66 TPSE687*002#0030 E 10 TPSE687*002#0100 Y 66 TPSE687*002#0100 Y 66 TPSE687*002#0100 Y 66 TPSE108*002#0100 Y 10 TPSD108*002#0100 D 15 TPSE108*002#0100 D 15 TPSY108M002#0100 D 15 TPSY108M002#0100 D 15 TPSV158M002#0030 E 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSV158M002#0050 E 15 TPSV158M002#0040 V 15 TPSC157*004#0500 A 44 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSD17*004#0250 B 10 TPSD17*004#0100 W 10 TPSD17*004#0100 W 10 TPSD27*004#0040 D 22 TPSD27*004#0040 T 25 TPSD337*004#0040 F 33 TPSD337*004#0040 D 22 TPSD337*004#0040 D 33 TPSD477*004#0040 D 34 TPSE477*004#0040 D	20	2.5	85	1.7	125	4.4	16	200	11	0.652	0.587	0.261
TPSY337*002#0040 Y 33 TPSD477*002#0035 D 43 TPSD477*002#0200 F 43 TPSP477*002#0200 F 43 TPSY477*002#0100 Y 43 TPSD687*002#0035 D 66 TPSD687*002#0035 D 66 TPSE687*002#0050 E 66 TPSE687*002#0050 E 66 TPSE687*002#0050 E 66 TPSE687*002#0040 Y 60 TPSE108*002#0040 E 100 TPSE108*002#0040 E 100 TPSY108M002#0100 Y 100 TPSD158*002#0040 E 100 TPSY108M002#0100 D 155 TPSV158M002#0040 V 150 TPSN158M002#0040 D 20 TPSD157*004#0500 B 10 TPSN157*004#0500 B 10 TPSN157*004#0500 B 10 TPSN157*004#0070 C 10 TPSD157*004#0070 C 10 TPSD227*004#0040 D 20 TPSD27*004#0040 D 20 TPSD337*004#0040 D 30 TPSD477*004#0040 D 30 TP	20	2.5	85	1.7	125	4.4	16	600	1	0.376	0.339	0.151
TPSD477*002#0035 D 4: TPSF477*002#0200 F 4: TPSF477*002#0100 Y 4: TPSD687*002#0100 Y 4: TPSD687*002#0035 D 6: TPSE687*002#0050 D 6: TPSE687*002#0050 E 6: TPSE687*002#0050 E 6: TPSE687*002#0050 E 6: TPSE687*002#0050 E 6: TPSE687*002#0100 Y 6: TPSE108*002#0030 E 10: TPSE108*002#0040 E 10: TPST108*002#0100 D 1: TPST108*002#0100 D 1: TPST108*002#0100 D 1: TPST158*002#0100 D 1: TPSV158*002#0100 D 1: TPSV158*002#0030 V 1: TPSV158*002#0040 V 1: TPSN158*002#0040 V 1: TPSN158*002#0040 V 1: TPSN106*004#3000 R 1: TPSN107*004#0500 B 1: TPSN107*004#0100 W 1: TPSD157*004#0040 D 2: TPSC157*004#0050 D 2: TPSD227*004#0040 D 2: TPSD227*004#0040 D 2: TPSD227*004#0050 D 2: TPSD237*004#0050 D 2: TPSD237*004#0050 D 2: TPSD237*004#0050 D 2: TPSD237*004#0050 D 2: TPSD337*004#0050 D 3: TPSD337*004#0060 D 6: TPSD687*004#0060 D 6	20	2.5	85	1.7	125	5.5	8	45	1	1.826	1.643	0.730
TPSF477*002#0200 F 4: TPSY477*002#0100 Y 4: TPSD687*002#0035 D 6: TPSD687*002#0035 D 6: TPSE687*002#0035 E 6: TPSE687*002#0035 E 6: TPSE687*002#0030 E 10: TPSE108*002#0030 E 10: TPSE108*002#0100 Y 6: TPSE108*002#0040 E 10: TPSE108*002#0040 E 10: TPSE108*002#0040 E 10: TPSE108*002#0040 E 10: TPSE158*002#0040 V 10: TPSD158*002#0050 E 15: TPSV158M002#0100 D 15: TPSU158*002#0050 E 15: TPSV158M002#0030 V 15: TPSV158M002#0040 V 15: TPSN106*004#3000 R 1: TPSR106*004#3000 R 1: TPSR106*004#3000 B 10: TPSB107*004#0500 B 10: TPSU158*002#0040 V 12: TPSU158*002#0040 D 22: TPSU158*002#0040 D 22: TPSU158*002#0040 D 22: TPSU158*002#0040 D 22: TPSU158*004#0050 D 22: TPSU158*004#0050 D 22: TPSU227*004#0050 D 22: TPSU237*004#0050 D 22: TPSU237*004#0050 D 22: TPSU237*004#0050 D 22: TPSU27*004#0050 D 22: TPSU27*004#0050 D 22: TPSU27*004#0050 D 22: TPSU27*004#0050 D 22: TPSU337*004#0050 D 22: TPSU337*004#0050 D 33: TPSD337*004#0050 D 33: TPSD337*004#0060 D 6: TPSE687*004#0060 D 6: TPSE108*004#0060 D 6: TPSE108*004#0060 D 6: TPSE108*004#0060 D 10: TPSE108*004#0060 D 10: TPSE158*004#0050 V 10: TPSE158*004#0050 V 10: TPSE158*004#0050 D 15:	30	2.5	85	1.7	125	8.2	8	40	11)	1.768	1.591	0.707
TPSY477*002#0100 Y 47 TPSD687*002#0035 D 68 TPSD687*002#0050 D 68 TPSE687*002#0050 E 68 TPSE687*002#0050 E 68 TPSE687*002#0050 E 68 TPSY687*002#0050 E 68 TPSY687*002#0030 E 10 TPSE108*002#0030 E 10 TPSE108*002#0040 E 10 TPSY108M002#0100 Y 10 TPSE158*002#0100 D 15 TPSE158*002#0100 D 15 TPSE158*002#0050 E 15 TPSV158M002#0030 V 15 TPSV158M002#0040 V 15 TPSN158M002#0040 D 16 TPSN158M002#0040 D 16 TPSN157*004#0500 B 10 TPSN157*004#0500 B 10 TPSN157*004#0500 B 10 TPSN157*004#0050 B 10 TPSN157*004#0050 B 10 TPSN157*004#0040 D 22 TPSY227*004#0040 D 22 TPSY227*004#0040 D 22 TPSY227*004#0050 D 22 TPSY227*004#0050 D 22 TPSY227*004#0050 D 22 TPSY227*004#0050 TPSD227*004#0050 D 22 TPSY227*004#0050 TPSD337*004#0040 D 22 TPSY227*004#0050 D 33 TPSD337*004#0045 D 43 TPSD477*004#0045 D 68 TPSD687*004#0040 E 66 TPSE687*004#0040 E 66 TPSE687*004#0040 E 66 TPSE687*004#0040 E 66 TPSE108*004#0040 E 100 TPSE108*004#0050 V 100 TPSE158*004#0050 V 100	-70	2.5	85	1.7	125	11.6	8	35	1	2.070	1.863	0.828
TPSD687*002#0035 D 66 TPSD687*002#0035 D 66 TPSD687*002#0030 D 66 TPSE687*002#0030 E 66 TPSE687*002#0030 E 66 TPSY687*002#0100 Y 66 TPSE108*002#0100 Y 10 TPSE108*002#0040 E 10 TPSY108M002#0100 D 15 TPSY108M002#0100 D 15 TPSY158*002#0040 U 15 TPSY158M002#0040 V 15 TPSV158M002#0040 V 15 TPSS107*004#0500 B 10 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSD157*004#0050 B 10 TPSD157*004#0050 B 11 TPSC157*004#0070 C 15 TPSC157*004#0070 C 15 TPSC27*004#0040 D 22 TPSC27*004#0040 T 25 TPSC37*004#0040 T 25 TPS	-70	2.5	85	1.7	125	11.8	12	200	1	0.707	0.636	0.283
TPSD687*002#0050 D 66 TPSE687*002#0035 E 66 TPSE687*002#0035 E 66 TPSY687*002#0030 E 10 TPSE108*002#0040 E 10 TPSE108*002#0040 E 10 TPSE108*002#0040 E 10 TPSE108*002#0100 T 10 TPSE158*002#0100 D 15 TPSE158*002#0100 D 15 TPSU158*002#0030 V 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSN158*002#0040 V 15 TPSN10*004#0350 B 10 TPSN10*004#040 W 10 TPSN10*004#040 D 22 TPSN22*004#0040 D 22 TPSN227*004#0040 D 22 TPSN237*004#0040 D 22 TPSN237*004#0040 D 22 TPSN33**004#0040 D 33 TPSN33***004#0040 D 33 TPSN33***004#0040 D 33 TPSN33***004#004	-70	2.5	85	1.7	125	11	12	100	11)	1.118	1.006	0.447
TPSD687*002#0050 D 66 TPSE687*002#0035 E 66 TPSE687*002#0035 E 66 TPSY687*002#0030 E 10 TPSE108*002#0040 E 10 TPSE108*002#0040 E 10 TPSE108*002#0040 E 10 TPSE108*002#0100 T 10 TPSE158*002#0100 D 15 TPSE158*002#0100 D 15 TPSU158*002#0030 V 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSN158*002#0040 V 15 TPSN10*004#0350 B 10 TPSN10*004#040 W 10 TPSN10*004#040 D 22 TPSN22*004#0040 D 22 TPSN227*004#0040 D 22 TPSN237*004#0040 D 22 TPSN237*004#0040 D 22 TPSN33**004#0040 D 33 TPSN33***004#0040 D 33 TPSN33***004#0040 D 33 TPSN33***004#004	80	2.5	85	1.7	125	17	16	35	1	2.070	1.863	0.828
TPSE687*002#0035 E 68 TPSE687*002#0050 E 68 TPSE687*002#0050 E 68 TPSE108*002#0030 E 10 TPSE108*002#0040 E 10 TPSE108*002#0040 E 10 TPSY108M002#0100 D 15 TPSE158*002#0100 D 15 TPSE158*002#050 E 15 TPSV158M002#0050 E 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSN158M002#0040 B 10 TPSN107*004#0500 B 10 TPSN107*004#0050 B 10 TPSN157*004#0050 B 10 TPSD227*004#0040 D 22 TPSD237*004#0040 D 22 TPSD337*004#0040 D 22 TPSN237*004#0040 D 22 TPSN337*004#0040 D 22 TPSN337*004#0040 D 22 TPSN337*004#0040 D 22 TPSD337*004#0045 D 33 TPSD337*004#0045 D 43 TPSD477*004#0045 D 66 TPSD477*004#0045 D 66 TPSD687*004#0040 E 66 TPSE687*004#0040 E 66 TPSE108*004#0040 E 66 TPSE108*004#0040 E 66 TPSE108*004#0040 E 10 TPSE108*004#0050 V 10 TPSE108*004#0050 V 10 TPSE158*004#0050 V 10 TPSE158*004#0075 E 15	80	2.5	85	1.7	125	17	16	50	1	1.732	1.559	0.693
TPSE687*002#0050 E 68 TPSY687*002#0100 Y 68 TPSY687*002#0100 Y 68 TPSE108*002#0030 E 10 TPSE108*002#0100 D 15 TPSE108*002#0100 D 15 TPSD158*002#0100 D 15 TPSE158*002#0050 E 15 TPSV158M002#0030 V 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSR106*004#3000 R 1 TPSR106*004#3000 R 1 TPSR106*004#0300 A 4 TPSB107*004#0200 B 10 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSD107*004#0500 B 10 TPSD107*004#0500 B 10 TPSD107*004#0500 B 10 TPSD107*004#0050 B 10 TPSD107*004#0050 B 10 TPSD27*004#0050 D 22 TPSD227*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD237*004#0050 D 22 TPSD27*004#0050 D 22 TPSD337*004#0050 D 22 TPSD337*004#0050 D 33 TPSD37*004#0050 D 33 TPSD37*004#0060 D 66 TPSD477*004#0045 D 66 TPSD477*004#0045 D 66 TPSD687*004#0040 E 66 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0050 V 10 TPSE158*004#0050 V 10	80	2.5	85	1.7	125	17	10	35	11)	2.171	1.954	0.868
TPSY687*002#0100 Y 68 TPSE108*002#0030 E 10 TPSE108*002#0040 E 10 TPSY108M002#0100 Y 10 TPSD158*002#0100 D 15 TPSE158*002#0100 D 15 TPSE158*002#0050 E 15 TPSV158M002#0030 V 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSR106*004#3000 R 1 TPSR106*004#3000 R 1 TPSR106*004#3000 B 10 TPSB107*004#0200 B 10 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSD107*004#0100 W 10 TPSB157*004#0050 B 10 TPSC157*004#0050 D 22 TPSC157*004#0060 C 15 TPSD227*004#0060 D 22 TPSY227*004#0060 D 22 TPSY227*004#0050 TPSD227*004#0050 TPSD337*004#0040 TPSD337*004#0040 TPSD337*004#0040 D 33 TPSD337*004#0045 D 33 TPSD37*004#0045 D 33 TPSD37*004#0045 D 33 TPSD477*004#0045 D 43 TPSD477*004#0040 E 66 TPSD687*004#0040 E 66 TPSD687*004#0040 E 66 TPSD687*004#0040 E 66 TPSE108*004#0040 E 66 TPSE108*004#0040 E 100 TPSE108*004#0040 V 100 TPSE108*004#0050 V 100 TPSE108*004#0050 V 100 TPSE108*004#0050 V 100 TPSE158*004#0050 V 100	80	2.5	85	1.7	125	17	10	50	1 ¹⁾	1.817	1.635	0.727
TPSE108*002#0030 E 10 TPSE108*002#0100 Y 10 TPSE158*002#0100 D 15 TPSD158*002#0100 D 15 TPSE158*002#0050 E 15 TPSV158M002#0030 V 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSR106*004#3000 R 1 TPSR106*004#3000 R 1 TPSR106*004#0500 A 4 TPSB107*004#0500 B 10 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSB107*004#0350 B 10 TPSB107*004#0350 B 10 TPSB107*004#0350 B 10 TPSB107*004#0400 W 10 TPSB157*004#0050 B 11 TPSC157*004#0040 D 22 TPSC157*004#0040 D 22 TPSC27*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 33 TPSD37*004#0050 T 22 TPSC337*004#0040 D 33 TPSD337*004#0045 D 33 TPSD337*004#0040 D 53 TPSE108*004#0040 E 50 TPSE108*004#0040 E 50 TPSE108*004#0040 E 50 TPSE108*004#0050 V 10 TPSE1	80	2.5	85	1.7	125	17	12	100	11)	1.118	1.006	0.447
TPSE108*002#0040 E 10 TPSY108M002#0100 Y 10 TPSD158*002#0100 D 15 TPSE158*002#0050 E 15 TPSV158M002#0030 V 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSR106*004#3000 R 1 TPSA476*004#0500 A 4 TPSB107*004#0250 B 10 TPSD107*004#0350 B 10 TPSD107*004#0050 B 10 TPSD107*004#0050 B 10 TPSD107*004#0050 D 22 TPSD27*004#0040 D 22 TPSC157*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0040 D 22 TPSD237*004#0050 D 22 TPSD337*004#0050 D 33 TPSD337*004#0045 D 43 TPSD477*004#0045 D 43 TPSD477*004#0045 D 43 TPSD477*004#0045 D 66 TPSE687*004#0040 E 66 TPSE108*004#0040 E 10 TPSE108*004#0050 V 10 TPSE158*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0050 E 15	000	2.5	85	1.7	125	25	14	30	11)	2.345	2.111	0.938
TPSY108M002#0100 Y 10 TPSD158*002#0100 D 15 TPSE158*002#0100 D 15 TPSE158*002#0050 E 15 TPSV158M002#0030 V 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSR106*004#3000 R 1 TPSA476*004#0500 A 4 TPSB107*004#0500 B 10 TPSB107*004#0250 B 10 TPSB107*004#0350 B 10 TPSB107*004#0350 B 10 TPSB107*004#0350 B 10 TPSB107*004#0350 B 10 TPSB157*004#0350 B 10 TPSD157*004#0350 B 10 TPSD157*004#0050 D 10 TPSD157*004#0050 D 22 TPSD227*004#0040 D 23 TPSD337*004#0040 TPSY227*004#0050 TPSY227*004#0050 TPSY227*004#0050 TPSY227*004#0050 TPSY227*004#0050 TPSY227*004#0050 TPSY227*004#0050 TPSY227*004#0050 TPSY337*004#0050 D 33 TPSD337*004#0045 D 33 TPSD37*004#0045 D 43 TPSD477*004#0045 D 66 TPSE477*004#0045 D 66 TPSE477*004#0045 D 66 TPSE687*004#0040 E 66 TPSE108*004#0040 E 10 TPSE158*004#0050 V 10 TPSE158*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0050 E 15	000	2.5	85	1.7	125	25	14	40	1 1)	2.031	1.828	0.812
TPSD158*002#0100 D 15 TPSE158*002#0050 E 15 TPSV158M002#0030 V 15 TPSV158M002#0040 V 15 TPSV158M002#0040 V 15 TPSR106*004#3000 R 1 TPSB107*004#0500 A 4 TPSB107*004#0200 B 10 TPSB107*004#0250 B 10 TPSB107*004#0350 B 10 TPSB107*004#0500 B 11 TPSD17*004#0500 B 11 TPSD17*004#0500 B 11 TPSD17*004#0500 B 11 TPSD17*004#0050 D 12 TPSC157*004#0040 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSY227*004#0040 Y 22 TPSC337*004#0040 Y 22 TPSD337*004#0045 D 33 TPSD3		2.5	85	1.7	125	25	30	100	11)	1.118	1.006	0.447
TPSE158*002#0050 E 15 TPSV158M002#0030 V 15 TPSV158M002#0040 V 15 TPSN158M002#0040 V 15 TPSR106*004#3000 R 1 TPSA476*004#0500 A 4 TPSB107*004#0500 B 10 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSD107*004#0100 W 10 TPSD157*004#0100 W 10 TPSD157*004#0070 C 15 TPSC157*004#0070 C 15 TPSC157*004#0080 C 15 TPSD227*004#0080 C 15 TPSD227*004#0050 D 22 TPSD237*004#0050 D 22 TPSD337*004#0050 T 22 TPSD337*004#0050 T 22 TPSD337*004#0050 T 22 TPSD337*004#0050 D 33 TPSD37*004#0050 D 33 TPSD477*004#0045 D 33 TPSD477*004#0045 D 33 TPSD477*004#0045 D 43 TPSD477*004#0045 D 63 TPSD687*004#0040 E 63 TPSE108*004#0040 E 10 TPSE108*004#0050 V 10 TPSE158*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0050 E 15		2.5	85	1.7	125	37.5	60	100	1	1.1125	1.102	0.447
TPSV158M002#0030				1.7	125			50	11)			
TPSV158M002#0040 V 15 TPSR106*004#3000 R 1 TPSA476*004#0500 A 4 TPSB107*004#0250 B 10 TPSB107*004#0250 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSB157*004#0100 W 11 TPSB157*004#0100 W 11 TPSD157*004#0070 C 15 TPSC157*004#0080 C 15 TPSC157*004#0080 C 15 TPSD227*004#0080 C 15 TPSD227*004#0080 D 22 TPSD227*004#0050 D 23 TPSD37*004#0090 D 33 TPSD37*004#0090 T 33 TPSD337*004#0090 D 33 TPSD37*004#0090 D 33 TPSD37*004#0090 D 33 TPSD477*004#0045 D 33 TPSD477*004#0045 D 43 TPSD477*004#0045 D 43 TPSD477*004#0045 D 43 TPSD477*004#0045 D 43 TPSD477*004#0040 D 43 TPSD477*004#0040 D 63 TPSD687*004#0040 D 63 TPSD6		2.5	85 85	1.7	125	37.5 30	20	30	11)	1.817 2.887	1.635 2.598	0.727
TPSR106*004#3000 R 1 TPSA476*004#0500 A 4 TPSB107*004#0200 B 10 TPSB107*004#0250 B 10 TPSB107*004#0350 B 10 TPSB107*004#0350 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSB157*004#0500 B 10 TPSC157*004#0070 C 11 TPSC157*004#0070 C 11 TPSC157*004#0080 C 11 TPSC27*004#0040 D 22 TPSD227*004#0040 C 12 TPSD227*004#0040 D 22 TPSD337*004#0040 T 22 TPSC337*004#0050 D 23 TPSD337*004#0050 D 23 TPSD337*004#0050 D 24 TPSC337*004#0050 D 25 TPSD337*004#0050 D 26 TPSD337*004#0050 D 33 TPSD337*004#0050 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD37*004#0045 D 33 TPSD37*004#0045 D 33 TPSD477*004#0045 D 43 TPSD477*004#0045 D 43 TPSD477*004#0045 D 43 TPSD477*004#0045 D 63 TPSD477*004#0045 D 63 TPSD477*004#0040 D 63 TPSD687*004#0040 D 63 TPSD6									11)			1.155
TPSA476*004#0500 A 4 TPSB107*004#0200 B 10 TPSB107*004#0250 B 10 TPSB107*004#0350 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSB157*004#0500 B 11 TPSW107*004#0100 W 10 TPSB157*004#0070 C 11 TPSC157*004#0070 C 11 TPSC157*004#0080 C 11 TPSD227*004#0080 C 12 TPSD227*004#0040 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 TPSD227*004#0050 Y 22 TPSD227*004#0050 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0050 D 33 TPSD337*004#0040 D 33 TPSD337*004#0040 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD37*004#0045 D 33 TPSD477*004#0045 D 43 TPSD477*004#0045 D 63 TPSD477*004#0040 E 63 TPSD687*004#0040 E 63 TPSD687*004#0040 E 63 TPSD687*004#0040 E 63 TPSD687*004#0040 E 63 TPSE108*004#0040 E 10 TPSE108*004#0050 V 10 TPSE158*004#0050 V 10 TPSE158*004#0050 E 155 TPSE158*004#0050 E 155 TPSE158*004#0050 E 155	500	2.5	85	1.7	125	30	20	40	1"	2.500	2.250	1.000
TPSA476*004#0500 A 4 TPSB107*004#0200 B 10 TPSB107*004#0250 B 10 TPSB107*004#0350 B 10 TPSB107*004#0500 B 10 TPSB107*004#0500 B 10 TPSB157*004#0500 B 11 TPSW107*004#0100 W 10 TPSB157*004#0070 C 11 TPSC157*004#0070 C 11 TPSC157*004#0080 C 11 TPSD227*004#0080 C 12 TPSD227*004#0040 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 TPSD227*004#0050 Y 22 TPSD227*004#0050 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0050 D 33 TPSD337*004#0040 D 33 TPSD337*004#0040 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD37*004#0045 D 33 TPSD477*004#0045 D 43 TPSD477*004#0045 D 63 TPSD477*004#0040 E 63 TPSD687*004#0040 E 63 TPSD687*004#0040 E 63 TPSD687*004#0040 E 63 TPSD687*004#0040 E 63 TPSE108*004#0040 E 10 TPSE108*004#0050 V 10 TPSE158*004#0050 V 10 TPSE158*004#0050 E 155 TPSE158*004#0050 E 155 TPSE158*004#0050 E 155	10		0.5		@ 85°C	0.5		0000	-	0.405	0.400	0.054
TPSB107*004#0200 B 10 TPSB107*004#0250 B 10 TPSB107*004#0350 B 10 TPSB107*004#0350 B 10 TPSB107*004#0300 B 10 TPSB107*004#0100 W 11 TPSB157*004#0100 W 11 TPSB157*004#0250 B 15 TPSC157*004#0250 B 15 TPSC157*004#0040 C 15 TPSC27*004#0040 D 22 TPSC27*004#0040 D 22 TPSC27*004#0040 D 22 TPSC27*004#0040 C 15 TPSD227*004#0050 T 22 TPSC27*004#0050 T 22 TPSC37*004#0050 T 22 TPSC37*004#0050 T 22 TPSC337*004#0050 T 22 TPSC337*004#00050 D 33 TPSC337*004#0000 D 33 TPSC337*004#0000 D 43 TPSC477*004#0045 D 43 TPSC477*004#0045 D 43 TPSC477*004#0045 D 43 TPSC477*004#0045 D 63 TPSC687*004#0040 D 63 TPSC687*004#0040 D 63 TPSC687*004#0040 D 63 TPSC687*004#0040 E 10 TPSC108*004#0040 E 10 TPSC108*004#0040 V 10 TPSC108*004#0040 V 10 TPSC108*004#0050 V 10 TPSC158*004#0050 E 155 TPSC158*004#0050 E 155 TPSC158*004#0050 E 155	10	4	85	2.7	125	0.5	6	3000		0.135	0.122	0.054
TPSB107*004#0250 B 10 TPSB107*004#0350 B 10 TPSB107*004#0350 B 10 TPSB107*004#0500 B 10 TPSW107*004#0100 W 10 TPSW157*004#0250 B 11 TPSC157*004#0250 B 11 TPSC157*004#0070 C 11 TPSC157*004#0070 C 11 TPSC27*004#0080 C 11 TPSD227*004#0080 D 22 TPSD227*004#0010 D 22 TPSD227*004#0050 T 22 TPSY227*004#0050 Y 22 TPSY227*004#0075 Y 22 TPSY227*004#0075 Y 22 TPSY227*004#0075 Y 22 TPSY227*004#0075 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD337*004#0040 D 33 TPSD337*004#0045 D 33 TPSD37*004#0045 D 33 TPSD37*004#0045 D 33 TPSD37*004#0045 D 43 TPSC477*004#0045 D 43 TPSC477*004#0045 D 43 TPSC477*004#0045 D 43 TPSC477*004#0045 D 63 TPSC477*004#0045 D 63 TPSC477*004#0045 D 63 TPSC477*004#0040 D 63 TPSC	47	4	85	2.7	125	1.9	8	500	1	0.387	0.349	0.155
TPSB107*004#0350 B 10 TPSB107*004#0100 W 10 TPSB157*004#0100 W 10 TPSB157*004#0250 B 15 TPSC157*004#0250 B 15 TPSC157*004#0070 C 15 TPSC157*004#0080 C 15 TPSC27*004#0080 C 15 TPSD227*004#0040 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 TPSC27*004#0050 Y 22 TPSC37*004#0050 Y 22 TPSC37*004#0050 Y 22 TPSC37*004#0050 TPSC37*004#0050 D 33 TPSD337*004#0050 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD37*004#0045 D 33 TPSD37*004#0045 D 33 TPSD37*004#0045 D 33 TPSD477*004#0045 D 43 TPSC477*004#0045 D 43 TPSC477*004#0045 D 63 TPSC477*004#0045 D 63 TPSC477*004#0045 E 43 TPSC477*004#0045 D 63 TPSC477*004#0040 E 63 TPSC477*004#0040 E 63 TPSC687*004#0040 E 10 TPSC687*004#0040 E 10 TPSC108*004#0040 E	00	4	85	2.7	125	4	8	200	1	0.652	0.587	0.261
TPSB107*004#0500 B 10 TPSW107*004#0100 W 10 TPSB157*004#0250 B 15 TPSC157*004#0250 B 15 TPSC157*004#0070 C 15 TPSC157*004#0080 C 15 TPSC27*004#0080 D 22 TPSC27*004#0080 D 22 TPSC27*004#0080 T 22 TPSC27*004#0080 Y 22 TPSC27*004#0075 Y 22 TPSC37*004#0075 Y 22 TPSC37*004#0075 D 33 TPSC37*004#0075 D 33 TPSC37*004#00045 D 33 TPSC37*004#00045 D 33 TPSC37*004#0000 F 33 TPSC47*004#0045 D 43 TPSC47*004#0045 D 43 TPSC47*004#0045 D 63 TPSC47*004#0045 D 63 TPSC47*004#0045 D 63 TPSC47*004#0040 E 63 TPSC687*004#0040 E 10 TPSC108*004#0040 E 10 TPSC108*004#0040 E 10 TPSC108*004#0040 E 10 TPSC108*004#0040 V 10 TPSC108*004#0040 V 10 TPSC108*004#0050 V 10 TPSC158*004#0050 E 15 TPSC158*004#0050 E 15 TPSC158*004#0050 E 15	00	4	85	2.7	125	4	8	250	1	0.583	0.525	0.233
TPSW107*004#0100 W 10 TPSB157*004#0250 B 15 TPSC157*004#0070 C 15 TPSC157*004#0080 C 15 TPSD227*004#0040 D 22 TPSD227*004#0050 D 22 TPSD227*004#0040 Y 22 TPSY227*004#0040 Y 22 TPSY227*004#0040 Y 22 TPSY227*004#0040 Y 22 TPSY227*004#0075 Y 22 TPSC337*004#0100 C 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD477*004#0045 D 43 TPSD477*004#0045 D 43 TPSE477*004#0045 E 43 TPSD687*004#0045 D 63 TPSD687*004#0045 D 63 TPSD687*004#0040 E 63 TPSD687*004#0040 E 63 <td< td=""><td>00</td><td>4</td><td>85</td><td>2.7</td><td>125</td><td>4</td><td>8</td><td>350</td><td>1</td><td>0.493</td><td>0.444</td><td>0.197</td></td<>	00	4	85	2.7	125	4	8	350	1	0.493	0.444	0.197
TPSB157*004#0250 B 15 TPSC157*004#0070 C 15 TPSC157*004#0080 C 15 TPSD227*004#0040 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 D 22 TPSD227*004#0050 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0050 Y 22 TPSD337*004#0050 D 33 TPSD337*004#0100 C 33 TPSD337*004#0100 D 33 TPSA337*004#0100 X 33 TPSD477*004#0045 D 47 TPSD477*004#0045 E 47 TPSE477*004#0045 E 47 TPSD687*004#0045 D 68 TPSD687*004#0045 D 68 TPSD687*004#0060 D 68 TPSD687*004#0060 D 68 <td< td=""><td>00</td><td>4</td><td>85</td><td>2.7</td><td>125</td><td>4</td><td>8</td><td>500</td><td>1</td><td>0.412</td><td>0.371</td><td>0.165</td></td<>	00	4	85	2.7	125	4	8	500	1	0.412	0.371	0.165
TPSC157*004#0070 C 15 TPSC157*004#0080 C 15 TPSD227*004#0040 D 25 TPSD227*004#0050 D 25 TPSD227*004#0100 D 25 TPSD227*004#0100 D 25 TPSC227*004#0040 Y 25 TPSC227*004#0050 Y 25 TPSC227*004#0075 Y 25 TPSC337*004#0075 D 35 TPSD337*004#0075 D 35 TPSD337*004#0045 D 35 TPSD337*004#0045 D 35 TPSD337*004#0040 D 35 TPSD337*004#0040 D 35 TPSD337*004#0100 D 35 TPSD337*004#0100 D 45 TPSC477*004#0100 D 47 TPSC477*004#0100 D 47 TPSC477*004#0100 D 47 TPSC477*004#0100 D 46 TPSC477*004#0100 D 66 TPSC687*004#0045 D 66 TPSC687*004#0040 D 79 TPSC108*004#0040 D 79 TPSC108*004#0040 D 79 TPSC108*004#0040 D 79 TPSC108*004#0050 V 10 TPSC158*004#0050 D 15 TPSC158*004#0050 D 15 TPSC158*004#0050 D 15	00	4	85	2.7	125	4	6	100	1	0.949	0.854	0.379
TPSC157*004#0070 C 11 TPSC157*004#0080 C 11 TPSD227*004#0040 D 22 TPSD227*004#0050 D 22 TPSD227*004#0100 D 22 TPSY227*004#0040 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0075 Y 22 TPSY227*004#0075 Y 22 TPSY337*004#0035 D 33 TPSD337*004#0045 D 43 TPSD347*004#0045 D 44 TPSE477*004#0100 D 47 TPSE477*004#0100 D 47 TPSE477*004#0100 D 47 TPSE477*004#0100 D 68 TPSD687*004#0045 D 68 TPSD687*004#0040 D 68 TPSD687*004#0040 D 68 TPSD687*004#0040 D 68 TPSD687*004#0040 D 68 TPSE687*004#0040 D 68 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 C 10 TPSE108*004#0040 C 10 TPSE108*004#0040 C 10 TPSE108*004#0040 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 V 10 TPSE158*004#0050 E 155 TPSE158*004#0050 E 155	50	4	85	2.7	125	6	10	250	1	0.583	0.525	0.233
TPSC157*004#0080 C 19 TPSD227*004#0040 D 22 TPSD227*004#0040 D 22 TPSD227*004#0100 D 22 TPSD227*004#0100 D 22 TPSY227*004#0040 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0075 Y 22 TPSY227*004#0075 Y 22 TPSY337*004#0075 D 33 TPSD337*004#0045 D 33 TPSD337*004#0045 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD37*004#0100 D 43 TPSE477*004#0100 D 43 TPSE477*004#0100 D 43 TPSE477*004#0100 D 43 TPSE477*004#0100 D 63 TPSD687*004#0045 E 43 TPSE477*004#0100 E 63 TPSD687*004#0040 E 63 TPSD687*004#0040 D 63 TPSD687*004#0040 E 63 TPSE687*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSY108*004#0040 V 10 TPSY108*004#0050 V 10 TPSY108*004#0050 V 10 TPSY108*004#0050 E 15 TPSE158*004#0050 E 15	50	4	85	2.7	125	6	6	70	1	1.254	1.128	0.501
TPSD227*004#0040 D 22 TPSD227*004#0100 D 22 TPSD227*004#0100 D 22 TPSD227*004#0100 D 22 TPSY227*004#0040 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0075 Y 22 TPSC337*004#0075 D 33 TPSD337*004#0035 D 33 TPSD337*004#0045 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 42 TPSC47*004#0035 E 42 TPSC47*004#0035 E 43 TPSD477*004#0100 D 43 TPSD477*004#0100 D 43 TPSE477*004#0045 D 66 TPSE477*004#0040 E 67 TPSD687*004#0040 E 66 TPSD687*004#0040 D 66 TPSE687*004#0040 E 10 TPSE108*004#0040 E 10 TPSE158*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0050 E 15	50	4	85	2.7	125	6	6	80	1	1.173	1.055	0.469
TPSD227*004#0050 D 22 TPSD227*004#0100 D 22 TPSY227*004#0040 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0075 Y 22 TPSC337*004#0100 C 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPST337*004#0200 F 33 TPST37*004#0100 X 33 TPSD477*004#0100 D 43 TPSE477*004#0045 D 43 TPSE477*004#0045 E 43 TPSE477*004#0045 E 43 TPSE687*004#0045 D 66 TPSD687*004#0045 D 66 TPSD687*004#0040 E 66 TPSE687*004#0060 D 66 TPSE687*004#0040 E 66 TPSE108*004#0040 E 10 TPSV108*004#0040 E 10	20	4	85	2.7	125	8.8	8	40	1	1.936	1.743	0.775
TPSD227*004#0100 D 22 TPSY227*004#0040 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0075 Y 22 TPSC337*004#0100 C 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD477*004#0045 D 43 TPSD477*004#0045 D 43 TPSD477*004#0045 E 43 TPSE477*004#0045 E 43 TPSE477*004#0045 D 63 TPSE477*004#0045 D 63 TPSE687*004#0045 D 63 TPSD687*004#0045 D 63 TPSD687*004#0040 E 63 TPSE687*004#0040 E 63 TPSE687*004#0040 E 63 TPSE108*004#0040 E 10 TPSV108*004#0040 E 10 TPSV108*004#0040 V 10 <td< td=""><td></td><td>4</td><td>85</td><td>2.7</td><td>125</td><td>8.8</td><td>8</td><td>50</td><td>1</td><td>1.732</td><td>1.559</td><td>0.693</td></td<>		4	85	2.7	125	8.8	8	50	1	1.732	1.559	0.693
TPSY227*004#0040 Y 22 TPSY227*004#0050 Y 22 TPSY227*004#0075 Y 22 TPSY227*004#0075 Y 22 TPSC337*004#0100 C 33 TPSD337*004#0035 D 33 TPSD337*004#0045 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD37*004#0100 D 43 TPSD477*004#0100 D 43 TPSD477*004#0100 D 43 TPSD477*004#0100 D 43 TPSD477*004#0100 D 43 TPSE477*004#0100 D 63 TPSD687*004#0045 E 43 TPSE477*004#0100 E 63 TPSD687*004#0040 D 63 TPSD687*004#0040 D 63 TPSD687*004#0040 E 63 TPSE687*004#0040 E 63 TPSE687*004#0040 E 63 TPSE687*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 TPSE108*004#0040 TPSE108*004#0040 TPSE108*004#0040 E 10 TPSU108*004#0040 E 10 TPSU108*004#0050 TPSU108*004#0050 V 10 TPSU108*004#0050 E 15 TPSE158*004#0050 E 15		4	85	2.7	125	8.8	8	100	1	1.225	1.102	0.490
TPSY227*004#0050 Y 22 TPSY227*004#0075 Y 22 TPSC337*004#0100 C 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPST337*004#0100 D 33 TPST37*004#0100 T 33 TPST37*004#0100 D 43 TPSD477*004#0045 D 43 TPSD477*004#0045 D 43 TPSD477*004#0100 D 43 TPSD477*004#0100 D 63 TPSE477*004#0100 D 63 TPSE477*004#0045 E 43 TPSE477*004#0100 E 63 TPSE687*004#0100 D 63 TPSE687*004#0100 D 63 TPSD687*004#0100 D 63 TPSD687*004#0100 D 63 TPSD687*004#0100 D 63 TPSE687*004#0100 D 63 TPSE687*004#0100 E 63 TPSE687*004#0100 E 63 TPSE687*004#0100 E 63 TPSE687*004#0060 E 10 TPSE108*004#0060 E 10 TPSU108*004#0060 E 10 TPSU108*004#0050 V 10 TPSU108*004#0050 V 10 TPSU108*004#0050 E 15 TPSE158*004#0050 E 15		4		2.7				40	11)			
TPSY227*004#0075 Y 22 TPSC337*004#0100 C 33 TPSD337*004#0100 D 33 TPST337*004#0100 X 33 TPSD477*004#0100 D 47 TPSD477*004#0100 D 47 TPSD477*004#0100 D 47 TPSD477*004#0100 D 47 TPSD477*004#0100 E 47 TPSD687*004#0100 E 47 TPSD687*004#0100 D 68 TPSE687*004#0100 D 68 TPSE687*004#0040 E 68 TPSE687*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSU108*004#0040 D 10 TPSU108*004#0050 D 10 TPSU108*004#0050 D 10 TPSE158*004#0050 D 15 TPSE158*004#0050 D 15			85		125	8.8	8		11)	1.768	1.591	0.707
TPSC337*004#0100 C 3: TPSD337*004#0035 D 3: TPSD337*004#0045 D 3: TPSD337*004#0100 D 3: TPSD337*004#0100 D 3: TPSD337*004#0100 D 3: TPSD477*004#0100 D 4: TPSD477*004#0100 D 4: TPSD477*004#0100 D 4: TPSD477*004#0100 D 4: TPSE477*004#0045 E 4: TPSE477*004#0045 E 4: TPSD687*004#0045 D 6: TPSD687*004#0045 D 6: TPSD687*004#0040 D 6: TPSD687*004#0040 D 6: TPSE687*004#0040 E 6: TPSE687*004#0040 E 6: TPSE687*004#0040 E 6: TPSE687*004#0040 E 10: TPSE108*004#0040 E 10: TPSE108*004#0040 E 10: TPSE108*004#0040 E 10: TPSU108*004#0040 E 10: TPSU108*004#0050 V 10: TPSU108*004#0050 V 10: TPSE158*004#0050 E 15: TPSE158*004#0050 E 15:		4	85	2.7	125	8.8	8	50		1.581	1.423	0.632
TPSD337*004#0035 D 33 TPSD337*004#0100 D 33 TPSD337*004#0100 D 33 TPSF337*004#0200 F 33 TPSX337*004#0100 X 33 TPSD477*004#0100 D 43 TPSD477*004#0100 D 43 TPSE477*004#0045 E 43 TPSE477*004#0045 E 43 TPSE477*004#0045 D 66 TPSD687*004#0045 D 66 TPSD687*004#0040 E 66 TPSD687*004#0040 E 66 TPSE687*004#0040 E 66 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSV108*004#0040 E 10 TPSV108*004#0040 V 10 TPSV108*004#0040 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 V 10 <td< td=""><td></td><td>4</td><td>85</td><td>2.7</td><td>125</td><td>8.8</td><td>8</td><td>75</td><td>11)</td><td>1.291</td><td>1.162</td><td>0.516</td></td<>		4	85	2.7	125	8.8	8	75	11)	1.291	1.162	0.516
TPSD337*004#0045 D 33 TPSD337*004#0100 D 33 TPSF337*0004#0200 F 33 TPSX337*004#0100 X 33 TPSD477*004#0045 D 47 TPSD477*004#0045 E 47 TPSE477*004#0045 E 47 TPSE477*004#0045 E 47 TPSD687*004#0040 E 47 TPSD687*004#0040 D 68 TPSD687*004#0060 D 68 TPSE687*004#0060 E 68 TPSE687*004#0060 E 68 TPSE687*004#0060 E 68 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSV108*004#0040 E 10 TPSV108*004#0040 V 10 TPSV108*004#0040 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 V 10 <t< td=""><td></td><td>4</td><td>85</td><td>2.7</td><td>125</td><td>13.2</td><td>8</td><td>100</td><td>1</td><td>1.049</td><td>0.944</td><td>0.420</td></t<>		4	85	2.7	125	13.2	8	100	1	1.049	0.944	0.420
TPSD337*004#0100 D 33 TPSF337*004#0100 F 33 TPSF337*004#0100 X 33 TPSD477*004#0100 D 43 TPSD477*004#0100 D 43 TPSD477*004#0100 D 43 TPSE477*004#0100 E 43 TPSE477*004#0100 E 43 TPSE477*004#0100 E 43 TPSE477*004#0100 D 63 TPSD687*004#0040 D 63 TPSD687*004#0060 D 63 TPSD687*004#0060 E 63 TPSE687*004#0060 E 63 TPSE687*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSU108*004#0040 D 10 TPSU108*004#0050 D 10 TPSU108*004#0050 D 10 TPSE158*004#0050 D 15 TPSE158*004#0050 D 15	30	4	85	2.7	125	13.2	8	35	1	2.070	1.863	0.828
TPSF337*004#0200 F 33 TPSX337*004#0100 X 33 TPSD477*004#0045 D 47 TPSD477*004#0100 D 47 TPSD477*004#0100 D 47 TPSE477*004#0045 E 47 TPSE477*004#0045 E 47 TPSE477*004#0100 E 47 TPSE477*004#0100 D 68 TPSE687*004#0060 D 68 TPSD687*004#0100 D 68 TPSE687*004#0060 E 68 TPSE687*004#0100 E 68 TPSE687*004#0060 E 10 TPSE687*004#0060 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSV108*004#0040 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 E 15 TPSE158*004#0050 E 15 TPSE158*004#0050 E 15	30	4	85	2.7	125	13.2	8	45	1	1.826	1.643	0.730
TPSX337*004#0100 X TPSD477*004#0045 D 4; TPSD477*004#0100 D 4; TPSD477*004#0100 D 4; TPSE477*004#035 E 4; TPSE477*004#0100 E 4; TPSE477*004#0100 E 4; TPSE687*004#0100 D 6; TPSD687*004#0100 D 6; TPSD687*004#0100 D 6; TPSE687*004#0100 D 6; TPSE687*004#0040 E 6; TPSE687*004#0040 E 10; TPSE108*004#0040 E 10; TPSE108*004#0040 E 10; TPSY108*004#0040 E 10; TPSV108*004#0040 V 10; TPSV108*004#0040 V 10; TPSV108*004#0050 V 10; TPSU108*004#0050 E 15; TPSE158*004#0050 E 15; TPSE158*004#0050 E 15;	30	4	85	2.7	125	13.2	8	100	11	1.225	1.102	0.490
TPSD477*004#0045 D 4: TPSD477*004#0100 D 4: TPSE477*004#0100 D 4: TPSE477*004#0035 E 4: TPSE477*004#0045 E 4: TPSE477*004#0100 E 4: TPSD687*004#0045 D 6: TPSD687*004#0040 D 6: TPSD687*004#0040 E 6: TPSE687*004#0040 E 6: TPSE687*004#0040 E 6: TPSE687*004#0040 E 10: TPSE108*004#0040 E 10: TPSE108*004#0040 E 10: TPSE108*004#0040 E 10: TPSU108*004#0040 E 10: TPSV108*004#0040 U 10: TPSV108*004#0040 V 10: TPSV108*004#0050 V 10: TPSU108*004#0050 E 15: TPSE158*004#0050 E 15: TPSE158*004#0050 E 15:	30	4	85	2.7	125	13.2	10	200	1	0.707	0.636	0.283
TPSD477*004#0100 D 4: TPSE477*004#0035 E 4: TPSE477*004#0045 E 4: TPSE477*004#0100 E 4: TPSD687*004#0045 D 6: TPSD687*004#0045 D 6: TPSD687*004#0060 D 6: TPSD687*004#0060 D 6: TPSE687*004#0040 E 6: TPSE687*004#0040 E 6: TPSE687*004#0040 E 6: TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSU108*004#0040 E 10 TPSV108*004#0040 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 E 15 TPSE158*004#0050 E 15 TPSE158*004#0050 E 15	30	4	85	2.7	125	13.2	8	100	1 ¹⁾	1.000	0.900	0.400
TPSE477*004#0035 E 4: TPSE477*004#0100 E 4: TPSE477*004#0100 E 4: TPSE477*004#0100 E 4: TPSD687*004#0045 D 68: TPSD687*004#0060 D 68: TPSD687*004#0060 E 68: TPSE687*004#0060 E 68: TPSE687*004#0040 E 10: TPSE108*004#0040 E 10: TPSE108*004#0040 E 10: TPSE108*004#0040 E 10: TPSU108*004#0040 E 10: TPSV108*004#0040 U 10: TPSV108*004#0040 V 10: TPSV108*004#0050 V 10: TPSV108*004#0050 E 15: TPSE158*004#0050 E 15:	-70	4	85	2.7	125	18.8	12	45	1	1.826	1.643	0.730
TPSE477*004#0045 E 4: TPSE477*004#0100 E 4: TPSD687*004#0045 D 66 TPSD687*004#0060 D 66 TPSD687*004#0060 D 66 TPSE687*004#0060 E 66 TPSE687*004#0060 E 66 TPSE687*004#0060 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSU108*004#0050 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 E 15 TPSU108*004#0050 E 15 TPSE158*004#0050 E 15	-70	4	85	2.7	125	18.8	12	100	1	1.225	1.102	0.490
TPSE477*004#0045 E 4: TPSE477*004#0100 E 4: TPSD687*004#0045 D 66 TPSD687*004#0060 D 66 TPSD687*004#0100 E 66 TPSE687*004#0100 E 66 TPSE687*004#0060 E 66 TPSE687*004#0060 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0050 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 E 15 TPSU108*004#0050 E 15 TPSU108*004#0050 E 15	-70	4	85	2.7	125	18.8	10	35	1 ¹⁾	2.171	1.954	0.868
TPSE477*004#0100 E 4: TPSD687*004#0045 D 66 TPSD687*004#0060 D 66 TPSD687*004#0100 D 66 TPSE687*004#0040 E 66 TPSE687*004#0060 E 66 TPSE687*004#0100 E 66 TPSE687*004#0060 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSV108*004#0050 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 E 15 TPSU108*004#0050 E 15 TPSU108*004#0050 E 15	-70	4	85	2.7	125	18.8	10	45	1 1)	1.915	1.723	0.766
TPSD687*004#0045 D 68 TPSD687*004#0100 D 68 TPSD687*004#0100 D 68 TPSE687*004#0040 E 68 TPSE687*004#0100 E 68 TPSE687*004#0100 E 79 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSU108*004#0050 V 10 TPSU108*004#0050 V 10 TPSU108*004#0050 V 10 TPSU108*004#0050 E 15 TPSE158*004#0050 E 15 TPSE158*004#0050 E 15	-70	4	85	2.7	125	18.8	10	100	1 1)	1.285	1.156	0.514
TPSD687*004#0060 D 68 TPSD687*004#0100 D 68 TPSE687*004#0040 E 68 TPSE687*004#0060 E 68 TPSE687*004#0100 E 68 TPSE687*004#0040 E 10 TPSE108*004#0040 E 10 TPSE108*004#0040 E 10 TPSV108*004#0060 E 10 TPSV108*004#0035 V 10 TPSV108*004#0035 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0075 E 15	80	4	85	2.7	125	27.2	14	45	1	1.826	1.643	0.730
TPSD687*004#0100 D 68 TPSE687*004#0040 E 68 TPSE687*004#0060 E 68 TPSE687*004#0100 E 68 TPSE108*004#0100 E 10 TPSE108*004#0060 E 10 TPSV108*004#0060 E 10 TPSV108*004#0035 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 E 15 TPSE158*004#0050 E 15	80	4	85	2.7	125	27.2	14	60	1	1.581	1.423	0.632
TPSE687*004#0040 E 68 TPSE687*004#0060 E 68 TPSE687*004#0100 E 68 TPSE108*004#0040 E 10 TPSE108*004#0060 E 10 TPSV108*004#0025 V 10 TPSV108*004#0035 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 E 15 TPSE158*004#0050 E 15 TPSE158*004#0075 E 15	80	4	85	2.7	125	27.2	14	100	1	1.225	1.102	0.490
TPSE687*004#0060 E 68 TPSE687*004#0100 E 68 TPSE108*004#0040 E 10 TPSE108*004#0060 E 10 TPSV108*004#0025 V 10 TPSV108*004#0035 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSV108*004#0050 E 15 TPSE158*004#0050 E 15	80	4	85	2.7	125	27.2	10	40	11)	2.031	1.828	0.812
TPSE687*004#0100 E 68 TPSE108*004#0040 E 10 TPSE108*004#0060 E 10 TPSV108*004#0025 V 10 TPSV108*004#0035 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0075 E 15	80 80	4	85	2.7	125	27.2	10	60	11)	1.658	1.492	0.663
TPSE108*004#0040 E 10 TPSE108*004#0060 E 10 TPSV108*004#0025 V 10 TPSV108*004#0035 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0075 E 15	80	4	85	2.7	125	27.2	10	100	11)	1.285	1.156	0.514
TPSE108*004#0060 E 10 TPSV108*004#0025 V 10 TPSV108*004#0035 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0075 E 15		4	85	2.7	125	40	14	40	11)	2.031	1.828	
TPSV108*004#0025 V 10 TPSV108*004#0035 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0075 E 15		4				40			11)			0.812
TPSV108*004#0035 V 10 TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0075 E 15			85	2.7	125		14	60		1.658	1.492	0.663
TPSV108*004#0040 V 10 TPSV108*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0075 E 15		4	85	2.7	125	40	16	25	11)	3.162	2.846	1.265
TPSV108*004#0050 V 10 TPSE158*004#0050 E 15 TPSE158*004#0075 E 15		4	85	2.7	125	40	16	35	11)	2.673	2.405	1.069
TPSE158*004#0050 E 15 TPSE158*004#0075 E 15	000	4	85	2.7	125	40	16	40	11)	2.500	2.250	1.000
TPSE158*004#0075 E 15	000	4	85	2.7	125	40	16	50	11)	2.236	2.012	0.894
	500	4	85	2.7	125	60	30	50	1 ¹⁾	1.817	1.635	0.727
TDC//1E0M00/400E0 1/ 15	500	4	85	2.7	125	60	30	75	11)	1.483	1.335	0.593
TPSV158 <mark>M</mark> 004#0050 V 15	500	4	85	2.7	125	60	30	50	1 ¹⁾	2.236	2.012	0.894
	500	4	85	2.7	125	60	30	75	11)	1.826	1.643	0.730
			, 30		It @ 85°C							0.700
TPSR225*006#7000 R 2	2.2	6.3	85	4	125	0.5	6	7000	1	0.089	0.080	0.035
	3.3	6.3	85	4	125	0.5	6	2100	1	0.189	0.170	0.076
	1.7	6.3	85	4	125	0.5	6	4000	1	0.127	0.175	0.070

Low ESR



AVX	Case	Capacitance	Rated	Rated	Category	_ Category	DCL	DF	ESR		100kHz	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	0.6	6	1500	1	0.238	0.214	0.095
TPSR106*006#1000 TPSR106*006#1500	R	10 10	6.3	85 85	4	125 125	0.6	8	1000	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	0.077
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	Α	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	85 85	4	125 125	1.4 1.4	6	500 900	1	0.387	0.349	0.155
TPSB226*006#0900 TPSB226*006#0375	B	22	6.3	85	4	125	1.4	6	375	1	0.269	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	С	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		0.269	0.242	0.107
TPSA336*006#0600 TPSB336*006#0250	<u>А</u> В	33 33	6.3	85 85	4	125 125	2.1	8	600 250	1	0.354	0.318	0.141
TPSB336*006#0250	В	33	6.3	85	4	125	2.1	6	350	1	0.363	0.323	0.233
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	Ţ	33	6.3	85	4	125	2.1	10	800	1	0.316	0.285	0.126
TPSA476*006#0800	A	47	6.3	85	4	125	2.8	10	800	1	0.306	0.276	0.122
TPSB476*006#0250 TPSB476*006#0350	B B	47 47	6.3	85 85	4	125 125	3	6	250 350	1	0.583	0.525	0.233
TPSB476*006#0500	В	47	6.3	85	4	125	3	6	500	1	0.493	0.371	0.197
TPSC476*006#0300	C	47	6.3	85	4	125	3	6	300	1	0.606	0.545	0.103
TPST476*006#1200	Т	47	6.3	85	4	125	2.8	10	1200	1	0.258	0.232	0.103
TPSB686*006#0250	В	68	6.3	85	4	125	4	8	250		0.583	0.525	0.233
TPSB686*006#0350 TPSB686*006#0500	B B	68 68	6.3 6.3	85 85	4	125 125	4	8	350 500	1	0.493	0.444	0.197
TPSC686*006#0300	C	68	6.3	85	4	125	4.3	6	150	1	0.412	0.371	0.163
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	W	68	6.3	85	4	125	4.3	6	250	1	0.600	0.540	0.240
TPSB107*006#0250 TPSB107*006#0400	ВВ	100	6.3	85 85	4	125 125	6.3 6.3	10	250 400	1	0.583	0.525	0.233
TPSC107*006#0400	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	W	100	6.3	85	4	125	6.3	6	100	1	0.949	0.854	0.379
TPSW107*006#0150 TPSY107*006#0100	W Y	100	6.3	85 85	4	125 125	6.3 6.3	6	150	1 1 ¹⁾	0.775	0.697 1.006	0.310
TPSC157*006#0050	Ċ	150	6.3	85	4	125	9.5	6	50	1	1.483	1.335	0.593
TPSC157*006#0090	C	150	6.3	85	4	125	9.5	6	90	1	1.106	0.995	0.442
TPSC157*006#0150	С	150	6.3	85	4	125	9.5	6	150	1	0.856	0.771	0.343
TPSC157*006#0200	C	150	6.3	85	4	125	9.5	6	200		0.742	0.667	0.297
TPSC157*006#0250	C D	150	6.3	85	4	125	9.5	6	250	1	0.663	0.597	0.265
TPSD157*006#0050 TPSD157*006#0125	D	150 150	6.3 6.3	85 85	4	125 125	9.5 9.5	6	50 125	1	1.732	1.559 0.986	0.693
TPSY157*006#0040	Y	150	6.3	85	4	125	9.5	6	40	11)	1.768	1.591	0.707
TPSY157*006#0050	Υ	150	6.3	85	4	125	9.5	6	50	1 ¹⁾	1.581	1.423	0.632
TPSC227*006#0070	С	220	6.3	85	4	125	13.9	8	70	1	1.254	1.128	0.501
TPSC227*006#0100 TPSC227*006#0125	C	220	6.3	85	4	125 125	13.9 13.9	8	100 125	1	1.049	0.944	0.420
TPSC227*006#0125 TPSC227*006#0250	C	220 220	6.3 6.3	85 85	4	125	13.9	8	250	<u>1</u> 1	0.938	0.844	0.375
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	1.095	0.986	0.438
TPSE227*006#0100	E	220	6.3	85	4	125	13.9	8	100	11)	1.285	1.156	0.514
TPSF227*006#0200 TPSY227*006#0100	F Y	220 220	6.3 6.3	85 85	4	125 125	13.2 13.9	10 8	200 100	1 1 ¹⁾	0.707	0.636 1.006	0.283
TPSY227*006#0100	Y	220	6.3	85	4	125	13.9	8	150	11)	0.913	0.822	0.365
TPSC337*006#0080	Ċ	330	6.3	85	4	125	19.8	12	80	1	1.173	1.055	0.469
TPSC337*006#0100	С	330	6.3	85	4	125	19.8	12	100	1	1.049	0.944	0.420
TPSD337*006#0045	D	330	6.3	85	4	125	20.8	8	45	1	1.826	1.643	0.730
TPSD337*006#0050	D D	330	6.3	85	4	125	20.8	8	50	1	1.732	1.559	0.693
TDCD332*UU&#UU2U</td><td>1.7</td><td>330</td><td>6.3</td><td>85</td><td>4</td><td>125</td><td>20.8</td><td>8</td><td>70</td><td>1</td><td>1.464</td><td>1.317</td><td>0.586</td></tr><tr><td>TPSD337*006#0070</td><td></td><td>330</td><td>63</td><td>85</td><td>4</td><td>125</td><td>20.8</td><td>Ω</td><td>100</td><td>1</td><td>1 225</td><td>1 102</td><td>1 () 2101</td></tr><tr><td>TPSD337*006#0070 TPSD337*006#0100 TPSE337*006#0050</td><td>D E</td><td>330 330</td><td>6.3 6.3</td><td>85 85</td><td>4</td><td>125 125</td><td>20.8</td><td>8</td><td>100 50</td><td>1 1¹⁾</td><td>1.225</td><td>1.102 1.635</td><td>0.490</td></tr></tbody></table>													

Low ESR



AVX	Case	Capacitance	Rated Voltage	Rated Temperature	Category	Category	DCL	DF %	ESR Max. (mΩ)	MSL		RMS Cur	rent (A)
Part No.	Size	΄ (μ F)	(V)	(°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	Max.	@ 100kHz	IVISL	25°C	85°C	125°C
TPSE337*006#0125	Е	330	6.3	85	4	125	20.8	8	125	1 ¹⁾	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	11)	1.291	1.162	0.516
TPSY337*006#0100	Y	330	6.3	85	4	125	20.8	12 12	100	1 ¹⁾	1.118	1.006	0.447
TPSY337*006#0150 TPSD477*006#0045	D	330 470	6.3	85	4	125 125	20.8 28	12	150 45	1	0.913	0.822 1.643	0.365
TPSD477 006#0045	D	470	6.3 6.3	85 85	4	125	28	12	60	1	1.581	1.423	0.730
TPSD477*006#0100	D	470	6.3	85	4	125	28	12	100	1	1.225	1.102	0.490
TPSD477*006#0200	D	470	6.3	85	4	125	28	12	200	1	0.866	0.779	0.346
TPSE477*006#0045	Ē	470	6.3	85	4	125	28	10	45	11)	1.915	1.723	0.766
TPSE477*006#0050	Е	470	6.3	85	4	125	28	10	50	1 ¹⁾	1.817	1.635	0.727
TPSE477*006#0060	Е	470	6.3	85	4	125	28	10	60	1 ¹⁾	1.658	1.492	0.663
TPSE477*006#0100	E	470	6.3	85	4	125	28	10	100	11)	1.285	1.156	0.514
TPSE477*006#0200	E	470	6.3	85	4	125	28	10	200	11)	0.908	0.817	0.363
TPSV477*006#0040	V	470	6.3	85	4	125	28	10	40	11)	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	470 470	6.3 6.3	85 85	4	125 125	28 28.2	10	100 150	1 ¹⁾	1.581	1.423 0.822	0.632
TPSY477*006#0150 TPSE687*006#0045	E	680	6.3	85	4	125	42.8	10	45	11)	0.913 1.915	1.723	0.365
TPSE687 006#0045 TPSE687*006#0060	E	680	6.3	85	4	125	42.8	10	60	11)	1.658	1.723	0.766
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	11)	2.673	2.405	1.069
TPSV687*006#0040	V	680	6.3	85	4	125	42.8	10	40	1 1)	2.500	2.250	1.000
TPSV687*006#0050	V	680	6.3	85	4	125	42.8	10	50	11)	2.236	2.012	0.894
TPSE108M006#0100	Е	1000	6.3	85	4	125	60	20	100	1 1)	1.285	1.156	0.514
TPSV108M006#0040	V	1000	6.3	85	4	125	60	16	40	1 ¹⁾	2.500	2.250	1.000
TPSV108M006#0050	V	1000	6.3	85	4	125	60	16	50	1 ¹⁾	2.236	2.012	0.894
					10 Vo	t @ 85°C							
TPSR105*010#9000	R	1	10	85	7	125	0.5	4	9000	1	0.078	0.070	0.031
TPSA225*010#1800	A	2.2	10	85	7	125	0.5	6	1800	1	0.204	0.184	0.082
TPST335*010#1500		3.3 4.7	10	85	7	125	0.5	6	1500	1	0.231	0.208	0.092
TPSA475*010#1400 TPSB475*010#1400	A B	4.7	10	85 85	7	125 125	0.5	6	1400	1	0.231	0.208	0.093
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	1	0.256	0.230	0.102
TPST685*010#1800	Т	6.8	10	85	7	125	0.7	6	1800	1	0.211	0.190	0.084
TPSA106*010#0900	Α	10	10	85	7	125	1	6	900	1	0.289	0.260	0.115
TPSA106*010#1800	Α	10	10	85	7	125	1	6	1800	1	0.204	0.184	0.082
TPSB106*010#1000	В	10	10	85	7	125	1	6	1000	1	0.292	0.262	0.117
TPSP106M010#2000	Р	10	10	85	7	125	1	8	2000	1 1	0.173	0.156	0.069
TPSS106*010#0900 TPST106*010#1000	S	10 10	10 10	85 85	7	125 125	<u>1</u> 1	8	900	1	0.269	0.242	0.107
TPST106 010#1000	T	10	10	85	7	125	1	6	2000	1	0.200	0.233	0.080
TPSA156*010#1000	A	15	10	85	7	125	1.5	6	1000	1	0.274	0.130	0.030
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	1	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		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	700 250	1	0.327	0.295	0.131
TPSB336*010#0425	В	33	10	85	7	125	3.3	6	425	1	0.363	0.323	0.233
TPSB336*010#0500	В	33	10	85	7	125	3.3	6	500	1	0.412	0.402	0.175
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	С	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		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
TD00 470+0+0 ******		47	10	85	7	125	4.7	6	200	1	0.742	0.667	0.297
TPSC476*010#0200 TPSC476*010#0350	C	47	10	85	7	125	4.7	6	350	1	0.561	0.505	0.224





PSP-0478-0100-1000 D	AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR	140:	100kHz	RMS Cur	rent (A)
TRISLAPE (1910) 100											MSL	25°C	85°C	125°C
TESPART/01001020	PSD476*010#0100	D	47								1	1.225	1.102	0.490
IFFSMAPFCH019289 W 47 10 85 7 126 4.7 6 150 1 0.676 0.897 0.840						7	125		6		1			0.283
FROM														0.339
IPSPRESEQUINDINGS						7								0.310
PROCESSON 1908 C						7								0.240
PROCESSO 1997 10						,								0.151
PROCESSO 190,000 C 68														0.469
IPSCB86*010F0300 C 68						· ·								0.420
TRSDB66*01040100 D B 68 10 86 7 125 6.8 6 100 1 1.226 1.102 0 1 PSY666*01040100 V 88 10 86 7 125 6.8 6.8 6 100 1 1.000 0.000 D PSY666*01040100 V 88 10 86 7 125 6.8 6 100 1 1.000 0.000 D PSY666*01040100 V 88 10 86 7 125 6.8 6 100 1 0.0791 0.712 0 1 1.000 0.000 D PSY666*01040100 W 88 10 86 7 125 6.8 6 100 1 0.0791 0.712 0 1 1.000 0.000 D PSY666*01040100 W 88 10 86 7 125 6.8 6 100 1 0.0949 0.884 0 0 1 0.000 D PSY666*01040100 W 88 10 86 7 125 6.8 6 100 1 0.0715 0.095 0 1 0.000 D PSY666*01040100 W 88 10 86 7 125 6.8 6 100 1 0.0949 0.884 0 1 0.000 D PSY666*01040100 C 0 1 0.0949 0.884 0 1 0.000 D PSY666*01040100 C 0 1 0 0 1 0 86 7 125 10 8 100 D PSY666*01040100 C 0 1 0 0 1 0 86 7 125 10 8 100 D PSY666*0104000 C 0 1 0 0 1 0 86 7 125 10 8 100 D PSY666*0104000 C 0 1 0 0 1 0 86 7 125 10 8 100 D PSY666*0104000 C 0 1 0 0 1 0 86 7 125 10 8 100 D PSY666*0104000 D D D D D D D D D D D D D D D D D														0.297
PRSCREG**C10F0100 D 68						7						0.000		0.242
PSYSERO*CIDENTOOO Y 68						7			_					0.490
TESYMERGY 1.0						· ·								0.447
FIRSWIGEO**100**100**100**10**10**10**10**10**10						-								0.316
FRSWIGNO W						· ·								0.379
F8B107/W010W0100075														0.310
IPSCIDT/01040076						7								0.184
PRSC107*01040105						7					1			0.484
FRSC107*01040200						7					1			0.420
TRSC107*010#0050						7								0.343
TRSDID(7*01040065 D 100						7					_1			0.297
FFSDI07'010H0065		_			85	7	125						1.559	0.693
TRSDID7*01040080	PSD107*010#0065	D	100	10	85	7	125	10	6	65	1	1.519	1.367	0.608
IFSDIO/**OID#0150	PSD107*010#0080	D				7				80	1	1.369	1.232	0.548
IFSEID07*010#0150	PSD107*010#0100					7	125				1	1.225	1.102	0.490
IFSEID7*010#0125	PSD107*010#0125					7				125	1	1.095		0.438
IFSWI07*010#0150	PSD107*010#0150					<u> </u>	125		6			1.000	0.900	0.400
TFSKI07*010#0085						7								0.460
IFSKI07'010#0150						7								0.310
FFSK107*010#0200						,								0.434
TPSY107*010#0100														0.327
TFSY107*010#0150						· ·								0.283
IFSY1107*010#0200														0.447
IFSC157**010#0150						7								0.365
IFSD157*010#0050 D 150 10 85 7 125 15 8 50 1 1.732 1.559 0 IFSD157*010#0385 D 150 10 85 7 125 15 8 85 1 1.328 1.196 0 IFSD157*010#0100 D 150 10 85 7 125 15 8 85 1 1.328 1.196 0 IFSD157*010#0100 E 150 10 85 7 125 15 8 100 1 1.225 1.102 0 IFSF157*010#0100 F 150 10 85 7 125 15 8 100 1 1.225 1.102 0 IFSF157*010#0100 F 150 10 85 7 125 15 8 100 1 1.285 1.156 0 IFSF157*010#0100 X 150 10 85 7 125 15 6 100 1 1.100 0.900 0 IFSY157*010#0100 Y 150 10 85 7 125 15 6 100 1 1.118 1.006 0 IFSY157*010#0150 Y 150 10 85 7 125 15 6 100 1 1.118 1.006 0 IFSY157*010#0150 Y 150 10 85 7 125 15 6 100 1 0.913 0.822 0 IFSY157*010#0000 D 220 10 85 7 125 15 6 200 1 0.791 0.712 0 IFSD227*010#0000 D 220 10 85 7 125 22 8 40 1 1.936 1.743 0 IFSD227*010#0050 D 220 10 85 7 125 22 8 50 1 1.732 1.559 0 IFSD227*010#0050 D 220 10 85 7 125 22 8 50 1 1.732 1.559 0 IFSE227*010#0150 D 220 10 85 7 125 22 8 50 1 1.336 1.743 0 IFSE227*010#0150 D 220 10 85 7 125 22 8 50 1 1.300 0.900 0 IFSE227*010#0150 D 220 10 85 7 125 22 8 50 1 1.373 1.559 0 IFSE227*010#0150 D 220 10 85 7 125 22 8 50 1 1.387 1.635 0 IFSE227*010#0150 D 220 10 85 7 125 22 8 50 1 1.387 1.635 0 IFSE227*010#0150 E 220 10 85 7 125 22 8 50 1 1.817 1.635 0 IFSE227*010#0150 E 220 10 85 7 125 22 8 50 1 1.387 1.382 0 IFSE227*010#0150 E 220 10 85 7 125 22 8 50 1 1.387 1.383 0 IFSE227*010#0150 E 220 10 85 7 125 22 8 50 1 1.181 1.006 0 IFSE227*010#0150 E 220 10 8						7								0.316
TPSD157*010#0085 D 150 10 85 7 125 15 8 85 1 1.328 1.196 0 TPSD157*010#0100 D 150 10 85 7 125 15 8 100 1 1.225 1.102 0 TPSE157*010#0100 E 150 10 85 7 125 15 8 100 1 1.225 1.156 0 0 TPSF157*010#0200 F 150 10 85 7 125 15 10 200 1 0.707 0.636 0 TPSF157*010#0100 X 150 10 85 7 125 15 6 100 1 1.020 0 1 0.070 0.636 0 TPSF157*010#0100 X 150 10 85 7 125 15 6 100 1 1.000 0.900 0 0 TPSF157*010#0100 Y 150 10 85 7 125 15 6 100 1 1.118 1.006 0 TPSF157*010#0160 Y 150 10 85 7 125 15 6 150 1 0 0.910 0 0 TPSF157*010#0020 Y 150 10 85 7 125 15 6 150 1 0 0.910 0 TPSF157*010#0040 D 220 10 85 7 125 15 6 200 1 0.791 0.712 0 TPSD227*010#0040 D 220 10 85 7 125 22 8 40 1 1.936 1.743 0 TPSD227*010#0050 D 220 10 85 7 125 22 8 50 1 1.732 1.559 0 TPSD227*010#0100 D 220 10 85 7 125 22 8 50 1 1.732 1.559 0 TPSD227*010#0100 D 220 10 85 7 125 22 8 50 1 1.000 0.900 0 TPSE227*010#0050 E 220 10 85 7 125 22 8 50 1 1.000 0.900 0 TPSE227*010#0050 E 220 10 85 7 125 22 8 50 1 1.000 0.900 0 TPSE227*010#0050 E 220 10 85 7 125 22 8 50 1 1.658 1.492 0 TPSE227*010#0100 E 220 10 85 7 125 22 8 50 1 1.149 1.034 0 TPSE227*010#0100 E 220 10 85 7 125 22 8 50 1 1.149 1.034 0 TPSE227*010#0100 E 220 10 85 7 125 22 8 50 1 1.149 1.034 0 TPSE227*010#0100 E 220 10 85 7 125 22 8 50 1 1.149 1.034 0 TPSE227*010#0100 E 220 10 85 7 125 22 8 150 1 1.000 1 1.188 1.006 0 TPSE227*010#0100 E 220 10 85 7 125 22 8 50 1 1.149 1.034 0						,								0.343
TPSD157*010#0100						-								0.531
TPSE157*010#0100						· ·								0.490
TPSF157*010#0200														0.490
IFPSX157M010#0100						7								0.283
TPSY157*010#0100						7								0.400
TPSY157*010#0150						· ·								0.447
TPSY157*010#00200														0.365
TPSD227*010#0040						7								0.316
TPSD227*010#0050 D 220 10 85 7 125 22 8 50 1 1.732 1.559 0 TPSD227*010#0100 D 220 10 85 7 125 22 8 100 1 1.225 1.102 0 TPSD227*010#0150 D 220 10 85 7 125 22 8 150 1 1.000 0.900 0 TPSE227*010#0050 E 220 10 85 7 125 22 8 50 1 1.817 1.635 0 TPSE227*010#0060 E 220 10 85 7 125 22 8 60 1 1.658 1.492 0 TPSE227*010#0070 E 220 10 85 7 125 22 8 60 1 1.658 1.492 0 TPSE227*010#0100 E 220 10 85 7 125 22 8 70 1 1.285 1.382 0 TPSE227*010#0100 E 220 10 85 7 125 22 8 100 1 1.285 1.382 0 TPSE227*010#0100 E 220 10 85 7 125 22 8 100 1 1.285 1.382 0 TPSE227*010#0105 E 220 10 85 7 125 22 8 150 1 1.494 1.034 0 TPSE227*010#0150 E 220 10 85 7 125 22 8 150 1 1.049 0.944 0 TPSY227*010#0150 Y 220 10 85 7 125 22 8 150 1 0.913 0.822 0 TPSY227*010#0150 Y 220 10 85 7 125 22 10 100 1 1.118 1.066 0 TPSY227*010#0200 Y 220 10 85 7 125 22 10 100 1 0.791 0.712 0 TPSD337*010#0065 D 330 10 85 7 125 33 8 50 1 1.732 1.559 0 TPSD337*010#0065 D 330 10 85 7 125 33 8 50 1 1.732 1.559 0 TPSD337*010#0060 E 330 10 85 7 125 33 8 50 1 1.817 1.635 0 TPSD337*010#0060 E 330 10 85 7 125 33 8 50 1 1.817 1.635 0 TPSD337*010#0060 E 330 10 85 7 125 33 8 50 1 1.817 1.635 0 TPSD337*010#0060 E 330 10 85 7 125 33 8 50 1 1.817 1.635 0 TPSD337*010#0060 E 330 10 85 7 125 33 8 50 1 1.817 1.635 0 TPSD337*010#0060 E 330 10 85 7 125 33 8 50 1 1.817 1.635 0 TPSD337*010#0060 E 330 10 85 7 125 33 8 50 1 1.817 1.635 0 TPSD337*010#0060 E 330 10														0.775
TPSD227*010#0100	PSD227*010#0050					7								0.693
TPSE227*010#0060 E 220 10 85 7 125 22 8 60 1		D		10		7					1			0.490
TPSE227*010#0060 E 220 10 85 7 125 22 8 60 1	PSD227*010#0150	D	220	10	85	7	125	22	8	150	1	1.000	0.900	0.400
TPSE227*010#0070	PSE227*010#0050	Е	220	10	85	7		22	8	50	11)	1.817	1.635	0.727
TPSE227*010#0100 E 220 10 85 7 125 22 8 100 1 ¹⁰ 1.285 1.156 0 TPSE227*010#0125 E 220 10 85 7 125 22 8 125 1 ¹⁰ 1.149 1.034 0 TPSE227*010#0150 E 220 10 85 7 125 22 8 150 1 ¹⁰ 1.049 0.944 0 TPSY227*010#0100 Y 220 10 85 7 125 22 10 100 1 ¹⁰ 1.118 1.006 0 TPSY227*010#0150 Y 220 10 85 7 125 22 10 150 1 ¹⁰ 0.913 0.822 0 TPSY227*010#0200 Y 220 10 85 7 125 22 10 150 1 ¹⁰ 0.791 0.712 0 TPSY227*010#0200 Y 220 10 85 7 125 22 10 200 1 ¹⁰ 0.791 0.712 0 TPSD337*010#0050 D 330 10 85 7 125 33 8 50 1 1.732 1.559 0 TPSD337*010#000 D 330 10 85 7 125 33 8 150 1 1.225 1.102 0 TPSD337*010#0100 D 330 10 85 7 125 33 8 150 1 1.225 1.102 0 TPSE337*010#0150 D 330 10 85 7 125 33 8 150 1 1.000 0.900 0 TPSE337*010#0160 D 330 10 85 7 125 33 8 150 1 1.000 0.900 0 TPSE337*010#0040 E 330 10 85 7 125 33 8 50 1 1.000 0.900 0 TPSE337*010#0040 E 330 10 85 7 125 33 8 60 1 1.000 0.900 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 1 1.000 0.900 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 1 ¹⁰ 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 1 ¹⁰ 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 1 ¹⁰ 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 100 1 ¹⁰ 1.285 1.156 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 10 40 1 ¹⁰ 2.500 2.250 1 TPSV337*010#0060 V 330 10 85 7 125 33 10 40 1 ¹⁰ 2.500 2.250 1 TPSV337*010#0060 V 330 10 85 7 125 33 10 60 1 ¹⁰ 1.817 1.837 0 TPSV337*010#0060 V 330 10 85 7 125 33 10 10 10 1 ¹⁰ 1.581 1.423 0 TPSV337*010#0060 V 330 10 85 7 125 33 10 10 10 1 ¹⁰ 1.581 1.423 0 TPSV337*010#0060 V 330 10 85 7 125 33 10 10 10 1 ¹⁰ 1.581 1.423 0 TPSV337*010#0060 V 330 10 85 7 125 33 10 10 10 1 ¹⁰ 1.581 1.423 0 TPSV337*010#0060 V 330 10 85 7 125 33 10 10 10 1 ¹⁰ 1.581 1.423 0	PSE227*010#0060	E	220	10	85	7	125	22	8	60	11)	1.658	1.492	0.663
TPSE227*010#0125 E 220 10 85 7 125 22 8 125 10 1.149 1.034 0 TPSE227*010#0150 E 220 10 85 7 125 22 8 150 10 1.049 0.944 0 TPSY227*010#0150 Y 220 10 85 7 125 22 10 100 10 1.118 1.006 0 TPSY227*010#0150 Y 220 10 85 7 125 22 10 150 10 0.913 0.822 0 TPSY227*010#0200 Y 220 10 85 7 125 22 10 200 10 0.913 0.822 0 TPSD337*010#0050 D 330 10 85 7 125 33 8 50 1 1.732 1.559 0 TPSD337*010#0065 D 330 10 85	PSE227*010#0070	Е	220	10	85	7	125		8	70	11)	1.535	1.382	0.614
TPSE227*010#0150 E 220 10 85 7 125 22 8 150 10 1.049 0.944 0 TPSY227*010#0100 Y 220 10 85 7 125 22 10 100 10 10 0.913 0.822 0 TPSY227*010#0200 Y 220 10 85 7 125 22 10 150 10 0.913 0.822 0 TPSY227*010#0200 Y 220 10 85 7 125 22 10 200 10 0.913 0.822 0 TPSY237*010#0200 Y 220 10 85 7 125 22 10 200 10 0.913 0.822 0 TPSD337*010#0050 D 330 10 85 7 125 33 8 50 1 1.732 1.559 0 TPSD337*010#0065 D 330 10 85 7 125 33 8 65 1 1.519 1.367 0 TPSD337*010#0100 D 330 10 85 7 125 33 8 100 1 1.225 1.102 0 TPSD337*010#0150 D 330 10 85 7 125 33 8 150 1 1.000 0.900 0 TPSE337*010#040 E 330 10 85 7 125 33 8 40 10 1 2.031 1.828 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 10 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 10 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 10 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 10 10 10 1.225 1.156 0 TPSE337*010#0040 V 330 10 85 7 125 33 8 10 40 10 2.500 2.250 1 TPSE337*010#0040 V 330 10 85 7 125 33 10 40 10 1.285 1.156 0 TPSE337*010#0040 V 330 10 85 7 125 33 10 60 10 2.041 1.837 0 TPSE337*010#0060 V 330 10 85 7 125 33 10 60 10 2.041 1.837 0 TPSE337*010#0060 V 330 10 85 7 125 33 10 60 10 2.041 1.837 0 TPSE337*010#0060 V 330 10 85 7 125 33 10 10 100 10 1.581 1.423 0 TPSE337*010#0040 V 330 10 85 7 125 33 10 100 10 10 10 1.581 1.423 0	PSE227*010#0100		220							100		1.285	1.156	0.514
TPSY227*010#0100 Y 220 10 85 7 125 22 10 100 150 1 ¹⁰ 0.913 0.822 0 TPSY227*010#0150 Y 220 10 85 7 125 22 10 150 1 ¹⁰ 0.913 0.822 0 TPSY227*010#0200 Y 220 10 85 7 125 22 10 200 1 ¹⁰ 0.791 0.712 0 TPSD337*010#0050 D 330 10 85 7 125 33 8 50 1 1.732 1.559 0 TPSD337*010#0065 D 330 10 85 7 125 33 8 65 1 1.519 1.367 0 TPSD337*010#0100 D 330 10 85 7 125 33 8 100 1 1.225 1.102 0 TPSD337*010#0150 D 330 10 85 7 125 33 8 150 1 1.000 0.900 0 TPSE337*010#0150 D 330 10 85 7 125 33 8 150 1 1.000 0.900 0 TPSE337*010#0040 E 330 10 85 7 125 33 8 40 1 ¹⁰ 2.031 1.828 0 TPSE337*010#0050 E 330 10 85 7 125 33 8 50 1 ¹⁰ 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 1 ¹⁰ 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 1 ¹⁰ 1.817 1.635 0 TPSE337*010#0000 E 330 10 85 7 125 33 8 100 1 ¹⁰ 1.285 1.156 0 TPSE337*010#0040 V 330 10 85 7 125 33 8 10 40 1 ¹⁰ 2.500 2.250 1 TPSV337*010#0040 V 330 10 85 7 125 33 10 40 1 ¹⁰ 2.500 2.250 1 TPSV337*010#0060 V 330 10 85 7 125 33 10 60 1 ¹⁰ 2.041 1.837 0 TPSV337*010#0060 V 330 10 85 7 125 33 10 10 10 1 ¹⁰ 1.581 1.423 0 TPSV337*010#0060 V 330 10 85 7 125 33 10 10 10 1 ¹⁰ 1.581 1.423 0 TPSV337*010#0060 V 330 10 85 7 125 33 10 100 1 ¹⁰ 1.581 1.423 0 TPSV337*010#0040 V 330 10 85 7 125 33 10 100 1 ¹⁰ 1.581 1.423 0								22						0.460
TPSY227*010#0150 Y 220 10 85 7 125 22 10 150 1° 0.913 0.822 0 TPSY227*010#0200 Y 220 10 85 7 125 22 10 200 1° 0.791 0.712 0 TPSD337*010#0050 D 330 10 85 7 125 33 8 50 1 1.732 1.559 0 TPSD337*010#0065 D 330 10 85 7 125 33 8 65 1 1.519 1.367 0 TPSD337*010#0100 D 330 10 85 7 125 33 8 100 1 1.225 1.100 0 TPSD337*010#0150 D 330 10 85 7 125 33 8 150 1 1.000 0 0 0 0 0 0 0 0 0 0														0.420
TPSY227*010#0200 Y 220 10 85 7 125 22 10 200 1° 0.791 0.712 0 TPSD337*010#0050 D 330 10 85 7 125 33 8 50 1 1.732 1.559 0 TPSD337*010#0065 D 330 10 85 7 125 33 8 65 1 1.519 1.367 0 TPSD337*010#0100 D 330 10 85 7 125 33 8 100 1 1.225 1.102 0 TPSD337*010#0150 D 330 10 85 7 125 33 8 150 1 1.200 0.900 0 0 0.900 0 0 1 1.225 1.102 0 1 1.225 1.102 0 0 1 1.225 1.102 0 1 1.225 1.102 0 1 1.2														0.447
TPSD337*010#0050 D 330 10 85 7 125 33 8 50 1 1.732 1.559 0 TPSD337*010#0065 D 330 10 85 7 125 33 8 65 1 1.519 1.367 0 TPSD337*010#0100 D 330 10 85 7 125 33 8 100 1 1.225 1.102 0 TPSD337*010#0150 D 330 10 85 7 125 33 8 150 1 1.000 0.900 0 TPSE337*010#0040 E 330 10 85 7 125 33 8 40 1° 2.031 1.828 0 TPSE337*010#0050 E 330 10 85 7 125 33 8 50 1° 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7														0.365
TPSD337*010#0065 D 330 10 85 7 125 33 8 65 1 1.519 1.367 0 TPSD337*010#0100 D 330 10 85 7 125 33 8 100 1 1.225 1.102 0 TPSD337*010#0150 D 330 10 85 7 125 33 8 150 1 1.000 0.900 0 TPSE337*010#0040 E 330 10 85 7 125 33 8 40 10 2.031 1.828 0 TPSE337*010#0050 E 330 10 85 7 125 33 8 50 10 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 10 1.658 1.492 0 TPSE337*010#0040 V 330 10 85 7														0.316
TPSD337*010#0100 D 330 10 85 7 125 33 8 100 1 1.225 1.102 0 TPSD337*010#0150 D 330 10 85 7 125 33 8 150 1 1.000 0.900 0 TPSE337*010#0040 E 330 10 85 7 125 33 8 40 1° 2.031 1.828 0 TPSE337*010#0050 E 330 10 85 7 125 33 8 50 1° 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 1° 1.817 1.635 0 TPSE337*010#0000 E 330 10 85 7 125 33 8 60 1° 1.658 1.492 0 TPSV337*010#0040 V 330 10 85 7														0.693
TPSD337*010#0150 D 330 10 85 7 125 33 8 150 1 1.000 0.900 0 TPSE337*010#0040 E 330 10 85 7 125 33 8 40 1° 2.031 1.828 0 TPSE337*010#0050 E 330 10 85 7 125 33 8 50 1° 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 1° 1.817 1.635 0 TPSE337*010#0000 E 330 10 85 7 125 33 8 100 1° 1.285 1.156 0 TPSV337*010#0040 V 330 10 85 7 125 33 10 40 1° 2.500 2.250 1 TPSV337*010#0060 V 330 10 85 7 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>33</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.608</td>								33						0.608
TPSE337*010#0040 E 330 10 85 7 125 33 8 40 10 2.031 1.828 0 TPSE337*010#0050 E 330 10 85 7 125 33 8 50 10 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 10 1.658 1.492 0 TPSE337*010#0100 E 330 10 85 7 125 33 8 100 10 1.285 1.156 0 TPSV337*010#0040 V 330 10 85 7 125 33 10 40 10 2.500 2.250 1 TPSV337*010#0060 V 330 10 85 7 125 33 10 60 10 2.041 1.837 TPSV337*010#0000 V 330 10 85 7 125<								33						0.490
TPSE337*010#0050 E 330 10 85 7 125 33 8 50 10 1.817 1.635 0 TPSE337*010#0060 E 330 10 85 7 125 33 8 60 10 1.658 1.492 0 TPSE337*010#0100 E 330 10 85 7 125 33 8 100 10 1.285 1.156 0 TPSV337*010#0040 V 330 10 85 7 125 33 10 40 10 2.500 2.250 1 TPSV337*010#0060 V 330 10 85 7 125 33 10 60 10 2.041 1.837 TPSV337*010#0100 V 330 10 85 7 125 33 10 100 10 1.581 1.423 0 TPSE477*010#0045 E 470 10 85 7 12														0.400
TPSE337*010#0060 E 330 10 85 7 125 33 8 60 10 1.658 1.492 0 TPSE337*010#0100 E 330 10 85 7 125 33 8 100 10 1.285 1.156 0 TPSV337*010#0040 V 330 10 85 7 125 33 10 40 10 2.500 2.250 1 TPSV337*010#0060 V 330 10 85 7 125 33 10 60 10 2.041 1.837 TPSV337*010#0100 V 330 10 85 7 125 33 10 10 10 1.581 1.423 0 TPSE477*010#0045 E 470 10 85 7 125 47 10 45 10 1.915 1.723 0														0.812
TPSE337*010#0100 E 330 10 85 7 125 33 8 100 1¹¹ 1.285 1.156 0 TPSV337*010#0040 V 330 10 85 7 125 33 10 40 1¹¹ 2.500 2.250 1 TPSV337*010#0060 V 330 10 85 7 125 33 10 60 1¹¹ 2.041 1.837 0 TPSV337*010#0100 V 330 10 85 7 125 33 10 100 1¹¹ 1.581 1.423 0 TPSE477*010#0045 E 470 10 85 7 125 47 10 45 1¹¹ 1.915 1.723 0								33						0.727
TPSV337*010#0040 V 330 10 85 7 125 33 10 40 1½ 2.500 2.250 1 TPSV337*010#0060 V 330 10 85 7 125 33 10 60 1½ 2.041 1.837 0 TPSV337*010#0100 V 330 10 85 7 125 33 10 100 1½ 1.581 1.423 0 TPSE477*010#0045 E 470 10 85 7 125 47 10 45 1½ 1.915 1.723 0														0.663
TPSV337*010#0060 V 330 10 85 7 125 33 10 60 1¹¹ 2.041 1.837 0 TPSV337*010#0100 V 330 10 85 7 125 33 10 100 1¹¹ 1.581 1.423 0 TPSE477*010#0045 E 470 10 85 7 125 47 10 45 1¹¹ 1.915 1.723 0														0.514
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														1.000
TPSE477*010#0045 E 470 10 85 7 125 47 10 45 1 ¹⁾ 1.915 1.723 0														0.816
														0.632
TPSE477*010#0050 E 470 10 85 7 125 47 10 50 11 1.817 1.635 0														0.766 0.727

Low ESR



AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF %	ESR Max (m0)	Mei		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°0
FPSE477*010#0060	Е	470	10	85	7	125	47	10	60	1 ¹⁾	1.658	1.492	0.66
ΓPSE477*010#0100	E	470	10	85	7	125	47	10	100	11)	1.285	1.156	0.51
TPSE477*010#0200	E	470	10	85	7	125	47	10	200	11)	0.908	0.817	0.36
PSV477*010#0040	V	470	10	85	7	125	47	10	40	11)	2.500	2.250	1.00
PSV477*010#0060	V	470	10	85	7	125	47	10	60	11)	2.041	1.837	0.81
PSV477*010#0100	V	470	10	85	7	125	47	10	100	11)	1.581	1.423	0.63
						t @ 85°C							
PSA105*016#6200	Α	1	16	85	10	125	0.5	4	6200		0.110	0.099	0.04
FPSA225*016#1800	Α	2.2	16	85	10	125	0.5	6	1800	1	0.204	0.184	0.08
PSA225*016#3500	A	2.2	16	85	10	125	0.5	6	3500	1	0.146	0.132	0.05
PST225*016#2000	T	2.2	16	85	10	125	0.5	6	2000	1	0.200	0.180	0.08
PSA335*016#3500	Α	3.3	16	85	10	125	0.5	6	3500	1	0.146	0.132	0.05
FPSB335*016#2500	В	3.3	16	85	10	125	0.5	6	2500	1	0.184	0.166	0.07
PSA475*016#2000	A	4.7	16	85	10	125	0.8	6	2000	1	0.194	0.174	0.07
PSB475*016#0800	В	4.7	16	85	10	125	0.8	6	800		0.326	0.293	0.13
PSB475*016#1500	В	4.7	16	85	10	125	0.8	6	1500	1	0.238	0.214	0.09
PSA685*016#1500	A	6.8	16	85	10	125	1.1	6	1500	1	0.224	0.201	0.08
PSB685*016#0600	В	6.8	16	85	10	125	1.1	6	600	1	0.376	0.339	0.15
PSB685*016#1200	В	6.8	16	85	10	125	1.1	6	1200		0.266	0.240	0.10
PSA106*016#1000	A	10	16	85	10	125	1.6	6	1000	1	0.274	0.246	0.1
PSB106*016#0500	В	10	16	85	10	125	1.6	6	500	1	0.412	0.371	0.16
PSB106*016#0800	В	10	16	85	10	125	1.6	6	800	1	0.326	0.293	0.13
PSC106*016#0500	C	10	16	85	10	125	1.6	6	500	1	0.469	0.422	0.1
PST106*016#0800	T	10	16	85	10	125	1.6	8	800	1	0.316	0.285	0.1
PST106*016#1000	T	10	16	85	10	125	1.6	8	1000	1	0.283	0.255	0.1
PSW106*016#0500	W	10	16	85	10	125	1.6	6	500	1	0.424	0.382	0.1
PSW106*016#0600	W	10	16	85	10	125	1.6	6	600	11	0.387	0.349	0.1
PSB156*016#0500	В	15	16	85	10	125	2.4	6	500	1	0.412	0.371	0.1
PSB156*016#0800	В	15	16	85	10	125	2.4	6	800	1	0.326	0.293	0.1
PSC156*016#0300	С	15	16	85	10	125	2.4	6	300	1	0.606	0.545	0.2
PSC156*016#0700	С	15	16	85	10	125	2.4	6	700	1	0.396	0.357	0.1
PSB226*016#0400	В	22	16	85	10	125	3.5	6	400	1	0.461	0.415	0.18
PSB226*016#0600	В	22	16	85	10	125	3.5	6	600	1	0.376	0.339	0.1
PSC226*016#0150	С	22	16	85	10	125	3.5	6	150	1	0.856	0.771	0.3
PSC226*016#0250	С	22	16	85	10	125	3.5	6	250	11	0.663	0.597	0.2
PSC226*016#0300	С	22	16	85	10	125	3.5	6	300	1	0.606	0.545	0.2
PSC226*016#0375	С	22	16	85	10	125	3.5	6	375	1	0.542	0.487	0.2
PSD226*016#0700	D	22	16	85	10	125	3.5	6	700	11	0.463	0.417	0.1
PSW226*016#0500	W	22	16	85	10	125	3.5	6	500	1	0.424	0.382	0.17
PSB336*016#0350	В	33	16	85	10	125	5.3	8	350	1	0.493	0.444	0.19
PSB336*016#0500	В	33	16	85	10	125	5.3	8	500	11	0.412	0.371	0.1
PSC336*016#0100	С	33	16	85	10	125	5.3	6	100	1	1.049	0.944	0.4
PSC336*016#0150	С	33	16	85	10	125	5.3	6	150	1	0.856	0.771	0.3
PSC336*016#0225	С	33	16	85	10	125	5.3	6	225	11	0.699	0.629	0.2
PSC336*016#0300	С	33	16	85	10	125	5.3	6	300	1	0.606	0.545	0.2
PSD336*016#0200	D	33	16	85	10	125	5.3	6	200	1	0.866	0.779	0.3
PSW336*016#0140	W	33	16	85	10	125	5.3	6	140	1	0.802	0.722	0.3
PSW336*016#0175	W	33	16	85	10	125	5.3	6	175	1	0.717	0.645	0.2
PSW336*016#0250	W	33	16	85	10	125	5.3	6	250	1	0.600	0.540	0.2
PSW336*016#0400	W	33	16	85	10	125	5.3	6	400	1	0.474	0.427	0.1
PSW336*016#0500	W	33	16	85	10	125	5.3	6	500	1	0.424	0.382	0.1
PSY336*016#0300	Υ	33	16	85	10	125	5.3	6	300	1 ¹⁾	0.645	0.581	0.2
PSY336*016#0400	Υ	33	16	85	10	125	5.3	6	400	11)	0.559	0.503	0.2
PSC476*016#0110	С	47	16	85	10	125	7.5	6	110	1	1.000	0.900	0.4
PSC476*016#0350	C	47	16	85	10	125	7.5	6	350	1	0.561	0.505	0.2
PSD476*016#0080	D	47	16	85	10	125	7.5	6	80	1	1.369	1.232	0.5
PSD476*016#0100	D	47	16	85	10	125	7.5	6	100	1	1.225	1.102	0.4
PSD476*016#0150	D	47	16	85	10	125	7.5	6	150	1	1.000	0.900	0.4
PSD476*016#0200	D	47	16	85	10	125	7.5	6	200	1	0.866	0.779	0.3
PSW476*016#0200	W	47	16	85	10	125	7.5	6	200	1	0.671	0.604	0.2
PSX476*016#0180	Χ	47	16	85	10	125	7.5	6	180	1 ¹⁾	0.745	0.671	0.2
PSY476*016#0250	Υ	47	16	85	10	125	7.5	6	250	11)	0.707	0.636	0.2
PSC686*016#0125	С	68	16	85	10	125	10.9	6	125	1	0.938	0.844	0.3
PSC686*016#0200	C	68	16	85	10	125	10.9	6	200	1	0.742	0.667	0.2
PSD686*016#0070	D	68	16	85	10	125	10.9	6	70	- i	1.464	1.317	0.5
PSD686*016#0100	D	68	16	85	10	125	10.9	6	100	1	1.225	1.102	0.4
PSD686*016#0150	D	68	16	85	10	125	10.9	6	150	1	1.000	0.900	0.4
PSF686*016#0200	F	68	16	85	10	125	10.9	10	200	1	0.707	0.636	0.2
PSX686*016#0150	X	68	16	85	10	125	10.9	8	150	11)	0.816	0.735	0.3
PSY686*016#0150	Y	68	16	85	10	125	10.9	6	150	11)	0.913	0.733	0.3
PSY686*016#0200	Y	68	16	85	10	125	10.9	6	200	11)	0.791	0.022	0.3
1 01000 010#0200	Y	68	16	85	10	125	10.9	6	250	11)	0.791	0.636	0.3

Low ESR



AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF %	ESR Max (m0)	MSL		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
ΓPSC107*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	100	16	85	10	125	16	6	125	11	1.095	0.986	0.438
TPSD107*016#0150	D	100	16	85	10	125	16	6	150	1	1.000	0.900	0.400
TPSE107*016#0055	E	100	16	85	10	125	16	6	55	11)	1.732	1.559	0.693
TPSE107*016#0100	E	100	16	85	10	125	16	6	100	11)	1.285	1.156	0.514
TPSE107*016#0125	E	100	16 16	85	10	125	16	6	125	1 ¹⁾	1.149	1.034	0.460
TPSE107*016#0150 TPSF107M016#0150	E F	100	16	85 85	10	125 125	16 16	10	150 150	1	1.049	0.944	0.420
TPSF107M016#0130	F	100	16	85	10	125	16	10	200	1	0.816	0.735	0.327
TPSY107*016#0100	Y	100	16	85	10	125	16	8	100	1 ¹⁾	1.118	1.006	0.200
TPSY107*016#0150	Y	100	16	85	10	125	16	8	150	11)	0.913	0.822	0.365
TPSY107*016#0200	Ý	100	16	85	10	125	16	8	200	1 1)	0.791	0.712	0.316
TPSD157*016#0060	D	150	16	85	10	125	24	6	60	1	1.581	1.423	0.632
TPSD157*016#0085	D	150	16	85	10	125	24	6	85	1	1.328	1.196	0.53
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 ¹⁾	1.285	1.156	0.514
TPSE227*016#0150 TPSV227*016#0050	E V	220 220	16 16	85 85	10	125 125	35.2 35.2	10 8	150 50	11)	1.049 2.236	0.944 2.012	0.420
TPSV227*016#0075	V	220	16	85	10	125	35.2	8	75	11)	1.826	1.643	0.692
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	11)	1.291	1.162	0.516
TPSE337M016#0200	Ė	330	16	85	10	125	52.8	30	200	11)	0.908	0.817	0.36
						t @ 85°C	02.0	- 00			0.000	0.011	0.00
TPSA105*020#3000	Α	1	20	85	13	125	0.5	4	3000	1	0.158	0.142	0.06
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	Α	1.5	20	85	13	125	0.5	6	3000	1	0.158	0.142	0.063
TPSA225*020#3000	A	2.2	20	85	13	125	0.5	6	3000		0.158	0.142	0.063
TPSB225*020#1700	В	2.2	20	85	13	125	0.5	6	1700	1	0.224	0.201	0.089
TPSA335*020#2500	A B	3.3	20 20	85 85	13 13	125 125	0.7	6	2500	1	0.173	0.156	0.069
TPSB335*020#1300 TPSA475*020#1800	A	4.7	20	85	13	125	0.7	6	1300	1	0.256	0.230 0.184	0.102
TPSB475*020#0750	В	4.7	20	85	13	125	0.9	6	750	1	0.204	0.303	0.08
TPSB475*020#1000	В	4.7	20	85	13	125	0.9	6	1000	1	0.292	0.262	0.13
TPSA685*020#1000	A	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	0.15
TPSB685*020#1000	В	6.8	20	85	13	125	1.4	6	1000	1	0.292	0.262	0.11
TPSC685*020#0700	С	6.8	20	85	13	125	1.4	6	700	1	0.396	0.357	0.15
TPSB106*020#0500	В	10	20	85	13	125	2	6	500	1	0.412	0.371	0.16
TPSB106*020#1000	В	10	20	85	13	125	2	6	1000	11	0.292	0.262	0.11
TPSC106*020#0500	C	10	20	85	13	125	2	6	500	1	0.469	0.422	0.18
TPSC106*020#0700	C	10	20	85	13	125	2	6	700	1	0.396	0.357	0.15
TPSW106*020#0250	W	10	20	85	13	125	2	6	250	1	0.600	0.540	0.24
TPSW106*020#0500	W	10	20	85	13	125	2	6	500	1	0.424	0.382	0.17
TPSB156*020#0500	B	15	20	85	13	125	3	6	500	1	0.412	0.371	0.16
TPSC156*020#0400 TPSC156*020#0450	C	15 15	20	85 85	13 13	125 125	3	6	400 450	1	0.524	0.472	0.21
TPSB226*020#0450	В	22	20	85	13	125	4.4	6	400	1	0.494	0.445	0.19
TPSB226*020#0400	В	22	20	85	13	125	4.4	6	600	1	0.461	0.415	0.16
TPSC226*020#0000	C	22	20	85	13	125	4.4	6	100	1	1.049	0.339	0.13
TPSC226*020#0150	C	22	20	85	13	125	4.4	6	150	1	0.856	0.771	0.34
TPSC226*020#0400	C	22	20	85	13	125	4.4	6	400	1	0.524	0.472	0.21
TPSD226*020#0200	Ď	22	20	85	13	125	4.4	6	200	1	0.866	0.779	0.34
TPSD226*020#0300	D	22	20	85	13	125	4.4	6	300	1	0.707	0.636	0.28
TPSC336*020#0300	С	33	20	85	13	125	6.6	6	300	1	0.606	0.545	0.24
TPSD336*020#0100	D	33	20	85	13	125	6.6	6	100	1	1.225	1.102	0.49
TPSD336*020#0200	D	33	20	85	13	125	6.6	6	200	1	0.866	0.779	0.34
TPSD476*020#0075	D	47	20	85	13	125	9.4	6	75	1	1.414	1.273	0.56
TPSD476*020#0100	D	47	20	85	13	125	9.4	6	100	1	1.225	1.102	0.49
TPSD476*020#0200	D	47	20	85	13	125	9.4	6	200	1	0.866	0.779	0.34
TPSE476*020#0070 TPSE476*020#0125	E	47 47	20 20	85 85	13 13	125 125	9.4 9.4	6	70 125	1 ¹⁾	1.535 1.149	1.382 1.034	0.6

Low ESR



AVX	Case	Capacitance	Rated	Rated	Category	_ Category	DCL	DF	ESR		100kHz	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#0150	Е	47	20	85	13	125	9.4	6	150	11)	1.049	0.944	0.420
TPSE476*020#0200	E	47	20	85	13	125	9.4	6	200	11)	0.908	0.817	0.363
PSE476*020#0250	E	47	20	85	13	125	9.4	6	250	11)	0.812	0.731	0.325
PSX476*020#0200	X	47	20	85	13	125	9.4	6	200	1 ¹⁾	0.707	0.636	0.283
PSD686*020#0070	D	68	20	85	13	125	13.6	6	70	11	1.464	1.317	0.586
PSD686*020#0150	D	68	20	85	13	125	13.6	6	150	11	1.000	0.900	0.400
PSD686*020#0200	D	68	20	85	13	125	13.6	6	200	1	0.866	0.779	0.346
PSD686*020#0300	D	68	20	85	13	125	13.6	6	300	1	0.707	0.636	0.283
PSE686*020#0125	E	68	20	85	13	125	13.6	6	125	11)	1.149	1.034	0.460
PSE686*020#0150 PSE686*020#0200	E	68 68	20	85 85	13 13	125 125	13.6 13.6	6	150 200	1 ¹⁾	1.049 0.908	0.944	0.420
PSY686*020#0200	Y	68	20	85	13	125	13.6	6	200	11)	0.908	0.817	0.303
PSD107*020#0200	D	100	20	85	13	125	20	6	85	1	1.328	1.196	0.531
PSD107*020#0100	D	100	20	85	13	125	20	6	100	1	1.225	1.102	0.490
PSD107*020#0150	D	100	20	85	13	125	20	6	150	1	1.000	0.900	0.400
PSE107*020#0100	E	100	20	85	13	125	20	6	100	11)	1.285	1.156	0.514
PSE107*020#0150	Ē	100	20	85	13	125	20	6	150	1 1)	1.049	0.944	0.420
PSE107*020#0200	Ē	100	20	85	13	125	20	6	200	1 1)	0.908	0.817	0.363
PSV107*020#0060	V	100	20	85	13	125	20	8	60	1 1)	2.041	1.837	0.816
PSV107*020#0085	V	100	20	85	13	125	20	8	85	1 1)	1.715	1.543	0.686
PSV107*020#0100	V	100	20	85	13	125	20	8	100	11)	1.581	1.423	0.632
PSV107*020#0200	V	100	20	85	13	125	20	8	200	11)	1.118	1.006	0.447
PSV157*020#0080	V	150	20	85	13	125	30	8	80	1 ¹⁾	1.768	1.591	0.707
					25 Vol	t @ 85°C							
FPSA474*025#7000	Α	0.47	25	85	17	125	0.5	4	7000	1	0.104	0.093	0.041
TPSA684*025#6000	Α	0.68	25	85	17	125	0.5	4	6000	1	0.112	0.101	0.045
TPSA105*025#4000	Α	1	25	85	17	125	0.5	4	4000	1	0.137	0.123	0.055
PSR105*025#2500	R	1	25	85	17	125	0.5	4	2500	1	0.148	0.133	0.059
PSR105*025#4000	R	1	25	85	17	125	0.5	4	4000	11	0.117	0.106	0.047
PSA155*025#3000	Α	1.5	25	85	17	125	0.5	6	3000	1	0.158	0.142	0.063
PSB155*025#1800	В	1.5	25	85	17	125	0.5	6	1800	1	0.217	0.196	0.087
PSA225*025#2500	A	2.2	25	85	17	125	0.6	6	2500		0.173	0.156	0.069
PSB225*025#0900	В	2.2	25	85	17	125	0.6	6	900	1	0.307	0.277	0.123
PSB225*025#1200	В	2.2	25	85	17	125	0.6	6	1200	1	0.266	0.240	0.106
PSB225*025#2500	В	2.2	25	85	17	125	0.6	6	2500	1	0.184	0.166	0.074
PSA335*025#1000	A	3.3 3.3	25	85 85	17 17	125 125	0.8	6	1000	1	0.274	0.246	0.110
FPSA335*025#1500 FPSB335*025#0750	B	3.3	25 25	85	17	125	0.8	6	1500 750	1	0.224	0.201	0.089
TPSB335*025#1500	В	3.3	25	85	17	125	0.8	6	1500	1	0.337	0.214	0.095
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	0.200	0.100	0.139
TPSB475*025#0900	В	4.7	25	85	17	125	1.2	6	900	1	0.307	0.277	0.133
TPSB475*025#1500	В	4.7	25	85	17	125	1.2	6	1500	1	0.238	0.214	0.095
TPSC475*025#0700	C	4.7	25	85	17	125	1.2	6	700	1	0.396	0.357	0.159
TPSB685*025#0700	В	6.8	25	85	17	125	1.7	6	700	1	0.348	0.314	0.139
TPSC685*025#0500	C	6.8	25	85	17	125	1.7	6	500	1	0.469	0.422	0.188
TPSC685*025#0600	Č	6.8	25	85	17	125	1.7	6	600	1	0.428	0.385	0.171
TPSC685*025#0700	С	6.8	25	85	17	125	1.7	6	700	1	0.396	0.357	0.159
TPSB106*025#1800	В	10	25	85	17	125	2.5	6	1800	1	0.217	0.196	0.087
TPSC106*025#0300	С	10	25	85	17	125	2.5	6	300	1	0.606	0.545	0.242
ΓPSC106*025#0500	С	10	25	85	17	125	2.5	6	500	1	0.469	0.422	0.188
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
PSC156*025#0300	С	15	25	85	17	125	3.8	6	300	11	0.606	0.545	0.242
TPSD156*025#0100	D	15	25	85	17	125	3.8	6	100	11	1.225	1.102	0.490
FPSD156*025#0300	D	15	25	85	17	125	3.8	6	300	1	0.707	0.636	0.283
TPSC226*025#0275	С	22	25	85	17	125	5.5	6	275	1	0.632	0.569	0.253
FPSC226*025#0400	C	22	25	85	17	125	5.5	6	400	11	0.524	0.472	0.210
PSD226*025#0100	D	22	25	85	17	125	5.5	6	100	1	1.225	1.102	0.490
FPSD226*025#0200	D	22	25	85	17	125	5.5	6	200	1	0.866	0.779	0.346
PSD226*025#0300	D	22	25	85	17	125	5.5	6	300	1	0.707	0.636	0.283
FPSD336*025#0100	D	33	25	85	17	125	8.3	6	100	1	1.225	1.102	0.490
FPSD336*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
FPSE336*025#0100	E	33	25	85	17	125	8.3	6	100	11)	1.285	1.156	0.514
TPSE336*025#0175	E	33	25	85	17	125	8.3	6	175	11)	0.971	0.874	0.388
TPSE336*025#0200	E	33	25	85	17	125	8.3	6	200	11)	0.908	0.817	0.363
FPSE336*025#0300	E	33	25	85	17	125	8.3	6	300	11)	0.742	0.667	0.297
TPSY336*025#0200	Y	33	25	85	17	125	8.3	6	200	11)	0.791	0.712	0.316
	l D	47	25	85	17	125	11.8	6	125	1	1.095	0.986	0.438
TPSD476*025#0125 TPSD476*025#0150	D	47	25	85	17	125	11.8	6	150	1	1.000	0.900	0.400

Low ESR



AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR May (m0)	N402	100kHz	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*025#0250	D	47	25	85	17	125	11.8	6	250	1	0.775	0.697	0.310
TPSE476*025#0080	Е	47	25	85	17	125	11.8	6	80	1 1)	1.436	1.293	0.574
TPSE476*025#0100	Е	47	25	85	17	125	11.8	6	100	11)	1.285	1.156	0.514
TPSE476*025#0125	E	47	25	85	17	125	11.8	6	125	11)	1.149	1.034	0.460
TPSY476*025#0250	Y E	47	25	85	17	125	11.8	6	250	1 ¹⁾	0.707	0.636	0.283
TPSE686*025#0125 TPSE686*025#0200	E	68 68	25 25	85 85	17 17	125 125	17 17	6	125 200	11)	1.149 0.908	1.034 0.817	0.460
TPSV686*025#0200	V	68	25	85	17	125	17	6	80	11)	1.768	1.591	0.707
TPSV686*025#0095	V	68	25	85	17	125	17	6	95	11)	1.622	1.460	0.649
TPSV686*025#0150	V	68	25	85	17	125	17	6	150	1 1)	1.291	1.162	0.516
TPSV686*025#0200	V	68	25	85	17	125	17	6	200	11)	1.118	1.006	0.447
TPSE107M025#0150	Ε	100	25	85	17	125	25	10	150	11)	1.049	0.944	0.420
TPSV107*025#0100	V	100	25	85	17	125	25	8	100	11)	1.581	1.423	0.632
TPSV157M025#0150	V	150	25	85	17	125	37.5	10	150	11)	1.291	1.162	0.516
TD0 4 00 4+00E #0000	^	0.00	0.5	0.5		t @ 85°C	0.5		1 0000		0.440	0.404	0.045
TPSA224*035#6000	A	0.22	35	85	23 23	125	0.5	4	6000	1	0.112	0.101	0.045
TPSA334*035#6000 TPSA474*035#6000	A	0.33	35 35	85 85	23	125 125	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	0.112	0.101	0.043
TPSA684*035#6000	A	0.68	35	85	23	125	0.5	4	6000	1	0.140	0.101	0.035
TPSA105*035#3000	A	1	35	85	23	125	0.5	4	3000	1	0.158	0.142	0.063
TPSB105*035#2000	В	1	35	85	23	125	0.5	4	2000	1	0.206	0.186	0.082
TPSA155*035#3000	Α	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	Α	2.2	35	85	23	125	0.8	6	1500	1	0.224	0.201	0.089
TPSB225*035#0750	В	2.2	35	85	23	125	0.8	6	750	1	0.337	0.303	0.135
TPSB225*035#1500	В	2.2	35	85	23	125	0.8	6	1500		0.238	0.214	0.095
TPSB225*035#2000	В	2.2	35	85	23	125	0.8	6	2000	1	0.206	0.186	0.082
TPSC225*035#1000 TPSB335*035#1000	C B	2.2 3.3	35 35	85 85	23 23	125 125	0.8 1.2	6	1000	1	0.332	0.298	0.133
TPSC335*035#1000	C	3.3	35	85	23	125	1.2	6	700	1	0.292	0.262	0.117
TPSB475*035#0700	В	4.7	35	85	23	125	1.6	6	700	1	0.348	0.314	0.139
TPSB475*035#1500	В	4.7	35	85	23	125	1.6	6	1500	1	0.238	0.214	0.095
TPSC475*035#0600	C	4.7	35	85	23	125	1.6	6	600	1	0.428	0.385	0.171
TPSD475*035#0700	D	4.7	35	85	23	125	1.6	6	700	1	0.463	0.417	0.185
TPSC685*035#0350	С	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	1	0.612	0.551	0.245
TPSD685*035#0500	D	6.8	35	85	23	125	2.4	6	500		0.548	0.493	0.219
TPSC106*035#0600	C	10	35	85	23	125	3.5	6	600	1	0.428	0.385	0.171
TPSD106*035#0125 TPSD106*035#0300	D D	10 10	35 35	85 85	23	125 125	3.5 3.5	6	125 300	<u> </u>	1.095	0.986	0.438
TPSE106*035#0200	E	10	35	85	23 23	125	3.5	6	200	1 ¹⁾	0.707	0.636 0.817	0.263
TPSY106*035#0250	Y	10	35	85	23	125	3.5	6	250	11)	0.908	0.636	0.283
TPSC156*035#0350	Ċ	15	35	85	23	125	5.3	6	350	1	0.561	0.505	0.224
TPSC156*035#0450	C	15	35	85	23	125	5.3	6	450	1	0.494	0.445	0.198
TPSD156*035#0100	D	15	35	85	23	125	5.3	6	100	1	1.225	1.102	0.490
TPSD156*035#0300	D	15	35	85	23	125	5.3	6	300	1	0.707	0.636	0.283
TPSY156*035#0250	Y	15	35	85	23	125	5.3	6	250	11)	0.707	0.636	0.283
TPSD226*035#0125	<u>D</u>	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	35	85	23	125	7.7	6	300 400	<u>1</u> 1	0.707	0.636	0.283
TPSD226*035#0400 TPSE226*035#0125	E	22 22	35 35	85 85	23	125 125	7.7	6	125	11)	0.612	0.551 1.034	0.245
TPSE226*035#0125	E	22	35	85	23	125	7.7	6	200	11)	0.908	0.817	0.460
TPSE226*035#0200	E	22	35	85	23	125	7.7	6	300	11)	0.742	0.667	0.303
TPSY226*035#0200	Y	22	35	85	23	125	7.7	6	200	11)	0.791	0.712	0.316
TPSD336*035#0200	Ď	33	35	85	23	125	11.6	6	200	1	0.866	0.779	0.346
TPSD336*035#0300	D	33	35	85	23	125	11.6	6	300	1	0.707	0.636	0.283
TPSE336*035#0100	Е	33	35	85	23	125	11.6	6	100	1 ¹⁾	1.285	1.156	0.514
TPSE336*035#0250	E	33	35	85	23	125	11.6	6	250	1 ¹⁾	0.812	0.731	0.325
TPSE336*035#0300	E	33	35	85	23	125	11.6	6	300	11)	0.742	0.667	0.297
TPSV336*035#0200	<u>V</u>	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	E V	47 47	35	85	23	125	16.5	6	250 150	1 ¹⁾	0.812	0.731	0.325
TPSV476*035#0150	V	47	35 35	85 85	23 23	125 125	16.5 16.5	6	200	11)	1.291	1.162	0.516
			35	85	23	125	23.8	6	150	11)	1.291	1.162	0.447
TPSV476*035#0200 TPSV686*035#0150	\/	l no											1 0.010
TPSV686*035#0150	V	68 68											0.447
	V	68	35	85	23	125 t @ 85°C	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 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
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#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 ¹⁾	0.812	0.731	0.325
TPSE106*050#0300	Е	10	50	85	33	125	5	6	300	1 ¹⁾	0.742	0.667	0.297
TPSE106*050#0400	Е	10	50	85	33	125	5	6	400	1 1)	0.642	0.578	0.257
TPSE106*050#0500	Е	10	50	85	33	125	5	6	500	1 ¹⁾	0.574	0.517	0.230
TPSE156*050#0250	Е	15	50	85	33	125	7.5	6	250	1 ¹⁾	0.812	0.731	0.325
TPSV156*050#0250	V	15	50	85	33	125	7.5	6	250	1 1)	1.000	0.900	0.400

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

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 212.

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	d voltage for 2000	Visual examination no visible damage								
	+48/-0 ho	urs at 85±2°C and then le	eaving 1-2 hours at	DCL	1.5 x	initial lir	nit					
Endurance		perature. Also determine gory voltage for 2000 +48		ΔC/C	withi	n ±10%	of initial	value				
		ng 1-2 hours at room tem		DF	initial	limit						
	supply imp	pedance to be $\leq 0.1\Omega/V$.	•	ESR	1.25	x initial	imit					
				Visual examination	no vi	sible da	mage					
		e after storage without a		DCL	1.5 x	initial lir	nit					
Humidity		C and 95±2% relative hud then recovery 1-2 hou		ΔC/C	within ±10% of initial value							
	temperati			DF	1.2 x initial limit							
				ESR	1.25	x initial	imit					
	Step	Temperature°C	Duration(min)		+20°C	-55°C	+20°C	+85°C	+125°C	+20°C		
Temperature	1	+20±2	15	DCL	IL*	n/a	IL*	10 x IL*	12.5 x IL*	IL*		
Stability	3	-55+0/-3 +20+2	15 15	ΔC/C	n/a	+0/-10%	±5%	+10/-0%	+12/-0%	±5%		
Otability	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*		
		oerature: 125°C+3/0°C		Visual examination	no vi	sible da	mage					
Surge	Surge vo	ltage: 1.3 x category v	oltage at 125°C	DCL	initial	limit						
Voltage		otection resistance 10 e resistance: 1000Ω	00±100Ω	ΔC/C	withi	n ±5% c	of initial v	/alue				
	Number of	of cycles: 1000x ration: 6 min; 30 sec c	horao	DF	initia	limit						
	Cycle du	5 min 30 sec di		ESR	1.25	x initial	imit					

*Initial Limit





Low ESR - Automotive Product Range

TPS AUTOMOTIVE RANGE CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capa	acitance			Rate	d Voltage DC (V _R) to	85°C		
μF	Code	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.15	154							
0.22	224							A(7000)
0.33	334						A(6000)	A(7000)
0.47	474					A(7000)	A(6000)	A(6500), B(6000)
0.68	684					A(6000)	A(6000)	B(4000)
1.0	105			A(6200)	A(3000)	A(4000)	A(3000), B(2000)	B(3000), C(2500)
1.5	155				A(3000)	A(3000)	A(3000), B(2500)	C(1500,2000)
2.2	225		A(1800)	A(1800,3500)	A(3000), B(1700)	A(2500), B(900,1200,2500)	B(750,1500,2000), C(1000)	C(1500), D(1200)
3.3	335	A(2100)		A(3500), B(2500)	A(2500), B(1300)	B(750,1500,2000)	B(1000), C(700)	C(1000), D(800)
4.7	475		A(1400), B(1400)	A(2000), B(800,1500)	A(1800), B(750,1000)	B(700,900), C(700)	B(700,1500), C(600), D(700)	C(800), D(500,700)
6.8	685		A(1800), B(1300)	A(1500), B(600,1200)	B(600,1000), C(700)	B(700), C(500,600,700)	C(350), D(400,500)	D(500,600)
10	106	A(1500), B(1500)	A(900,1800), B(1000)	A(1000), B(500,800), C(500)	B(500,1000), C(500,700)	C(300,500), D(500)	C(600), D(300)	D(500), E(250,300,400,500)
15	156	A(700,1500)	A(1000), B(450,600), C(700)	B(500,800) C(300,700)	B(500), C(400,450)	C(220,300), D(300)	D(300)	E(250)
22	226	A(500,900), B(375,600), C(500)	A(900), B(400,500,700), C(180,300)	B(400,600), C(300,375), D(500), D(700)	C(400), D(200,300)	C(275,400), D(200,300)	D(200,300,400), E(200,300)	
33	336	A(600), B(250,350,450,600)	B(250,425,500,650), C(375,500)	C(225,300), D(200)	C(300), D(160,200)	D(200,300)	E(250,300)	
47	476	B(250,350,500), C(300)	B(250,350,500,650), C(200,350), D(300)	C(350), D(200)	D(200)	D(125,150,250), E(125)		
68	686	B(250,350,500), C(150,200)	C(200,300), D(150)	C(200), D(150)	D(150,200,300), E(125,150,200)			
100	107	C(150), D(300)	C(150,200), D(100,125,150)	D(100,125,150), E(100,125,150)	E(100,150,200)			
150	157	C(150,200,250), D(125)	D(85,100), E(100)	E(100)				
220	227	D(100,125)	D(100,150), E(70,100,125,150)					
330	337	D(70,100), E(100,125,150)	E(50,60,100)					
470	477	D(45,60,100,200), E(45,50,60,100,200)						
680	687	E(45,60,100)						

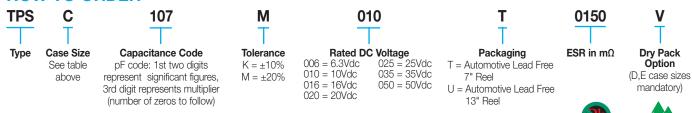
Not recommended for new designs, higher voltage or smaller case size substitution are offered.

Released codes

Engineering samples - please contact manufacturer

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

HOW TO ORDER



TECHNICAL SPECIFICATIONS



Technical Data:		All te	chnical da	ta relate to	an ambiei	nt tempera	ature of +2		COMPONENT	COMPLIANT
Capacitance Range:		0.22	μF to 680	μF						
Capacitance Tolerance:		±10%	%; ±20%							
Rated Voltage (V _R)	≤ +85°C:	6.3	10	16	20	25	35	50		
Category Voltage (V _C)	≤ +125°C:	4	7	10	13	17	23	33		
Surge Voltage (V _S)	≤ +85°C:	8	13	20	26	32	46	65		
Surge Voltage (V _S)	≤ +125°C:	5	8	13	16	20	28	40		
Temperature Range:		-55°(c to +125°	C						
Environmental Classification:		55/12	25/56 (IEC	68-2)						
Reliability:		1% p	er 1000 h	ours at 85°	C, V _R with	0.1Ω/V se	eries imped	dance, 60)% confiden	ce level
Termination Finished:		Sn P	ating (star	ndard), Gol	d and SnF	b Plating u	upon requ	est		
		Meet	s requirem	nents of AE	C-Q200					





Low ESR - Automotive Product Range

AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR	1401	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
			(-)	()		t @ 85°C							
TPSA335*006T2100	Α	3.3	6.3	85	4	125	0.5	6	2100	1	0.189	0.170	0.076
TPSA106*006T1500	A	10	6.3	85	4	125	0.6	6	1500	1	0.224	0.201	0.089
TPSB106*006T1500	В	10	6.3	85	4	125	0.6	6	1500 700	1	0.238	0.214	0.095
TPSA156*006T0700 TPSA156*006T1500	A	15 15	6.3	85 85	4	125 125	0.9	6	1500	1	0.327	0.295	0.131
TPSA226*006T0500	A	22	6.3	85	4	125	1.4	6	500	1	0.387	0.349	0.003
TPSA226*006T0900	A	22	6.3	85	4	125	1.4	6	900	1	0.289	0.260	0.115
TPSB226*006T0375	В	22	6.3	85	4	125	1.4	6	375	1	0.476	0.428	0.190
TPSB226*006T0600	В	22	6.3	85	4	125	1.4	6	600	1	0.376	0.339	0.151
TPSC226*006T0500	С	22	6.3	85	4	125	1.4	6	500	1	0.469	0.422	0.188
TPSA336*006T0600	A	33	6.3	85	4	125	2.1	8	600	1	0.354	0.318	0.141
TPSB336*006T0250 TPSB336*006T0350	B	33	6.3	85 85	4	125 125	2.1	6	250 350	1	0.583	0.525	0.233
TPSB336*006T0450	В	33	6.3	85	4	125	2.1	6	450	1	0.435	0.391	0.197
TPSB336*006T0600	В	33	6.3	85	4	125	2.1	6	600	1	0.433	0.339	0.174
TPSB476*006T0250	В	47	6.3	85	4	125	3	6	250	1	0.583	0.525	0.233
TPSB476*006T0350	В	47	6.3	85	4	125	3	6	350	1	0.493	0.444	0.197
TPSB476*006T0500	В	47	6.3	85	4	125	3	6	500	1	0.412	0.371	0.165
TPSC476*006T0300	С	47	6.3	85	4	125	3	6	300	1	0.606	0.545	0.242
TPSB686*006T0250	В	68	6.3	85	4	125	4	8	250	1	0.583	0.525	0.233
TPSB686*006T0350	В	68	6.3	85	4	125	4	8	350	1	0.493	0.444	0.197
TPSB686*006T0500 TPSC686*006T0150	В	68 68	6.3	85 85	4	125 125	4.3	8	500 150	1	0.412	0.371	0.165
	C	68	6.3	85	4	125	4.3	6	200	1	0.856	0.667	0.343
TPSC686*006T0200 TPSC107*006T0150	C	100	6.3	85	4	125	6.3	6	150	1	0.742	0.007	0.297
TPSD107*006T0300V	D	100	6.3	85	4	125	6.3	6	300	3	0.707	0.636	0.283
TPSC157*006T0150	C	150	6.3	85	4	125	9.5	6	150	1	0.856	0.771	0.343
TPSC157*006T0200	C	150	6.3	85	4	125	9.5	6	200	1	0.742	0.667	0.297
TPSC157*006T0250	С	150	6.3	85	4	125	9.5	6	250	1	0.663	0.597	0.265
TPSD157*006T0125V	D	150	6.3	85	4	125	9.5	6	125	3	1.095	0.986	0.438
TPSD227*006T0100V	D	220	6.3	85	4	125	13.9	8	100	3	1.225	1.102	0.490
TPSD227*006T0125V	D	220 330	6.3	85	4	125 125	13.9 20.8	8	125 70	3	1.095	0.986	0.438
TPSD337*006T0070V TPSD337*006T0100V	D	330	6.3	85 85	4	125	20.8	8	100	3	1.464	1.317	0.586
TPSE337*006T0100V	E	330	6.3	85	4	125	20.8	8	100	3	1.285	1.156	0.430
TPSE337*006T0125V	E	330	6.3	85	4	125	20.8	8	125	3	1.149	1.034	0.460
TPSE337*006T0150V	E	330	6.3	85	4	125	20.8	8	150	3	1.049	0.944	0.420
TPSD477*006T0045V	D	470	6.3	85	4	125	28	12	45	3	1.826	1.643	0.730
TPSD477*006T0060V	D	470	6.3	85	4	125	28	12	60	3	1.581	1.423	0.632
TPSD477*006T0100V	D	470	6.3	85	4	125	28	12	100	3	1.225	1.102	0.490
TPSD477*006T0200V	D	470	6.3	85	4	125	28	12	200	3	0.866	0.779	0.346
TPSE477*006T0045V TPSE477*006T0050V	E	470 470	6.3	85	4	125	28 28	10	45 50	3	1.915	1.723	0.766
TPSE477*006T0050V	E	470	6.3 6.3	85 85	4	125 125	28	10	60	3	1.817	1.635 1.492	0.727
TPSE477*006T01000V	E	470	6.3	85	4	125	28	10	100	3	1.285	1.156	0.514
TPSE477*006T0200V	Ē	470	6.3	85	4	125	28	10	200	3	0.908	0.817	0.363
TPSE687*006T0045V	Ē	680	6.3	85	4	125	42.8	10	45	3	1.915	1.723	0.766
TPSE687*006T0060V	Ε	680	6.3	85	4	125	42.8	10	60	3	1.658	1.492	0.663
TPSE687*006T0100V	Е	680	6.3	85	4	125	42.8	10	100	3	1.285	1.156	0.514
TD0 4 00 5 + 0 1 0 T 1 0 2 2	1 ^	0.0	40	0.5	1	t @ 85°C	0.5		1000	-	0.004	0.404	0.000
TPSA225*010T1800	A	2.2	10	85	7	125	0.5	6	1800	1	0.204	0.184	0.082
TPSA475*010T1400 TPSB475*010T1400	A B	4.7	10	85 85	7	125 125	0.5	6	1400	1	0.231	0.208	0.093
TPSB475 01011400 TPSA685*010T1800	A	6.8	10	85	7	125	0.5	6	1800	1	0.246	0.222	0.099
TPSB685*010T1300	В	6.8	10	85	7	125	0.7	6	1300	1	0.256	0.184	0.102
TPSA106*010T0900	A	10	10	85	7	125	1	6	900	1	0.289	0.260	0.115
TPSA106*010T1800	A	10	10	85	7	125	1	6	1800	1	0.204	0.184	0.082
TPSB106*010T1000	В	10	10	85	7	125	1	6	1000	1	0.292	0.262	0.117
TPSA156*010T1000	Α	15	10	85	7	125	1.5	6	1000	1	0.274	0.246	0.110
TPSB156*010T0450	В	15	10	85	7	125	1.5	6	450	1	0.435	0.391	0.174
TPSB156*010T0600	В	15	10	85	7	125	1.5	6	600	1	0.376	0.339	0.151
TPSC156*010T0700 TPSA226*010T0900	C A	15 22	10	85 85	7	125 125	1.5 2.2	6 8	700 900	1	0.396	0.357	0.159
				85	7	125	2.2	6	400	1	0.269	0.260	0.113
TPSR226*010T0400		22	()			120					1 0.401	UFIU	
TPSB226*010T0400 TPSB226*010T0500	В	22	10			125	2.2	6	500	1	0.412	0.371	0.165
TPSB226*010T0400 TPSB226*010T0500 TPSB226*010T0700		22 22 22	10	85 85	7	125 125	2.2	6	500 700	1	0.412	0.371	0.165
TPSB226*010T0500	B B	22	10	85	7								
TPSB226*010T0500 TPSB226*010T0700 TPSC226*010T0180 TPSC226*010T0300	B B C C	22 22 22 22	10 10 10 10	85 85 85 85	7 7 7 7	125 125 125	2.2 2.2 2.2	6 6 6	700 180 300	1 1 1	0.348 0.782 0.606	0.314 0.704 0.545	0.139 0.313 0.242
TPSB226*010T0500 TPSB226*010T0700 TPSC226*010T0180	B B C	22 22 22	10 10 10	85 85 85	7 7 7	125 125	2.2	6 6	700 180	1	0.348 0.782	0.314 0.704	0.139 0.313



Low ESR - Automotive Product Range

AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR			RMS Cur	RMS Current (A)		
Part No.	Size	(μF)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μA) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C		
TPSB336*010T0500	В	33	10	85	7	125	3.3	6	500	1	0.412	0.371	0.165		
TPSB336*010T0650	В	33	10	85	7	125	3.3	6	650	1	0.362	0.325	0.145		
TPSC336*010T0375	С	33	10	85	7	125	3.3	6	375	1	0.542	0.487	0.217		
TPSC336*010T0500	С	33	10	85	7	125	3.3	6	500	1	0.469	0.422	0.188		
TPSB476*010T0250	В	47	10	85	7	125	4.7	8	250		0.583	0.525	0.233		
TPSB476*010T0350	В	47	10	85	7	125	4.7	8	350	1	0.493	0.444	0.197		
TPSB476*010T0500	В	47	10	85	7	125	4.7	8	500		0.412	0.371	0.165		
TPSB476*010T0650	В	47	10	85	7	125	4.7	8	650	1	0.362	0.325	0.145		
TPSC476*010T0200	C	47 47	10 10	85 85	7	125 125	4.7	6	200 350	1	0.742	0.667	0.297		
TPSC476*010T0350 TPSD476*010T0300V	D	47	10	85	7	125	4.7	6	300	3	0.561	0.505 0.636	0.224		
TPSC686*010T0200	C	68	10	85	7	125	6.8	6	200	1	0.742	0.667	0.297		
TPSC686*010T0300	C	68	10	85	7	125	6.8	6	300	1	0.606	0.545	0.242		
TPSD686*010T0150V	D	68	10	85	7	125	6.8	6	150	3	1.000	0.900	0.400		
TPSC107*010T0150	С	100	10	85	7	125	10	8	150	1	0.856	0.771	0.343		
TPSC107*010T0200	C	100	10	85	7	125	10	8	200	1	0.742	0.667	0.297		
TPSD107*010T0100V	D	100	10	85	7	125	10	6	100	3	1.225	1.102	0.490		
TPSD107*010T0125V	D	100	10	85	7	125	10	6	125	3	1.095	0.986	0.438		
TPSD107*010T0150V	D	100	10	85	7	125	10	6	150	3	1.000	0.900	0.400		
TPSD157*010T0085V	D	150	10	85	7	125	15	8	85	3	1.328	1.196	0.531		
TPSD157*010T0100V	D	150	10	85	7	125	15	8	100	3	1.225	1.102	0.490		
TPSE157*010T0100V	Е	150	10	85	7	125	15	8	100	3	1.285	1.156	0.514		
TPSD227*010T0100V	D	220	10	85	7	125	22	8	100	3	1.225	1.102	0.490		
TPSD227*010T0150V	D	220	10	85	7	125	22	8	150	3	1.000	0.900	0.400		
TPSE227*010T0070V	E	220	10	85	7	125	22	8	70	3	1.535	1.382	0.614		
TPSE227*010T0100V	E	220	10	85	7	125	22	8	100	3	1.285	1.156	0.514		
TPSE227*010T0125V	E	220	10	85	7	125	22	8	125	3	1.149	1.034	0.460		
TPSE227*010T0150V TPSE337*010T0050V	E	220 330	10	85	7	125	22 33	8	150	3	1.049	0.944	0.420		
TPSE337*010T0050V	E	330	10	85 85	7	125 125	33	8	50 60	3	1.817	1.635 1.492	0.727		
TPSE337*010T01000V	E	330	10	85	7	125	33	8	100	3	1.285	1.156	0.663		
1F3L337 01010100V	<u> </u>	330	10	00	16 Vol	t @ 85°C	00	0	100	J	1.200	1.130	0.514		
TPSA105*016T6200	Α	1.0	16	85	10 001	125	0.5	4	6200	1	0.110	0.099	0.044		
TPSA225*016T1800	Α	2.2	16	85	10	125	0.5	6	1800	1	0.204	0.184	0.082		
TPSA225*016T3500	A	2.2	16	85	10	125	0.5	6	3500	1	0.146	0.132	0.059		
TPSA335*016T3500	Α	3.3	16	85	10	125	0.5	6	3500	1	0.146	0.132	0.059		
TPSB335*016T2500	В	3.3	16	85	10	125	0.5	6	2500	1	0.184	0.166	0.074		
TPSA475*016T2000	Α	4.7	16	85	10	125	0.8	6	2000	1	0.194	0.174	0.077		
TPSB475*016T0800	В	4.7	16	85	10	125	0.8	6	800	1	0.326	0.293	0.130		
TPSB475*016T1500	В	4.7	16	85	10	125	0.8	6	1500	1	0.238	0.214	0.095		
TPSA685*016T1500	Α	6.8	16	85	10	125	1.1	6	1500	11	0.224	0.201	0.089		
TPSB685*016T0600	В	6.8	16	85	10	125	1.1	6	600	11	0.376	0.339	0.151		
TPSB685*016T1200	В	6.8	16	85	10	125	1.1	6	1200		0.266	0.240	0.106		
TPSA106*016T1000	A	10	16	85	10	125	1.6	6	1000	1	0.274	0.246	0.110		
TPSB106*016T0500	В	10 10	16 16	85	10	125	1.6	6	500	1	0.412	0.371	0.165		
TPSB106*016T0800 TPSC106*016T0500	B	10	16	85 85	10	125 125	1.6 1.6	6	800 500	1	0.326	0.293	0.130		
TPSB156*016T0500	В	15	16	85	10	125	2.4	6	500	1	0.412	0.422	0.165		
TPSB156*016T0800	В	15	16	85	10	125	2.4	6	800	1	0.326	0.293	0.130		
TPSC156*016T0300	C	15	16	85	10	125	2.4	6	300	1	0.606	0.545	0.130		
TPSC156*016T0700	C	15	16	85	10	125	2.4	6	700	1	0.396	0.357	0.159		
TPSB226*016T0400	В	22	16	85	10	125	3.5	6	400	1	0.461	0.415	0.184		
TPSB226*016T0600	В	22	16	85	10	125	3.5	6	600	1	0.376	0.339	0.151		
TPSC226*016T0300	С	22	16	85	10	125	3.5	6	300	1	0.606	0.545	0.242		
TPSC226*016T0375	C	22	16	85	10	125	3.5	6	375	1	0.542	0.487	0.217		
TPSD226*016T0500V	D	22	16	85	10	125	3.5	6	500	3	0.548	0.493	0.219		
TPSD226*016T0700V	D	22	16	85	10	125	3.5	6	700	3	0.463	0.417	0.185		
TPSC336*016T0225	С	33	16	85	10	125	5.3	6	225	1	0.699	0.629	0.280		
TPSC336*016T0300	С	33	16	85	10	125	5.3	6	300	1	0.606	0.545	0.242		
TPSD336*016T0200V	D	33	16	85	10	125	5.3	6	200	3	0.866	0.779	0.346		
TPSC476*016T0350	C	47	16	85	10	125	7.5	6	350	1	0.561	0.505	0.224		
TPSD476*016T0200V	D	47	16	85	10	125	7.5	6	200	3	0.866	0.779	0.346		
TPSC686*016T0200	С	68	16	85	10	125	10.9	6	200	1	0.742	0.667	0.297		
	D	68	16	85	10	125	10.9	6	150	3	1.000	0.900	0.400		
TPSD686*016T0150V		100	16	85	10	125	16	6	100	3	1.225	1.102	0.490		
TPSD686*016T0150V TPSD107*016T0100V	D	100	4.0	O.E	1 10										
TPSD686*016T0150V TPSD107*016T0100V TPSD107*016T0125V	D	100	16	85	10	125	16	6	125	3	1.095	0.986			
TPSD686*016T0150V TPSD107*016T0100V TPSD107*016T0125V TPSD107*016T0150V	D D	100	16	85	10	125	16	6	150	3	1.000	0.900	0.400		
TPSD686*016T0150V TPSD107*016T0100V TPSD107*016T0125V TPSD107*016T0150V TPSE107*016T0100V	D D E	100 100	16 16	85 85	10 10	125 125	16 16	6 6	150 100	3	1.000 1.285	0.900 1.156	0.400 0.514		
TPSD686*016T0150V TPSD107*016T0100V TPSD107*016T0125V TPSD107*016T0150V	D D	100	16	85	10	125	16	6	150	3	1.000	0.900	0.400		





Low ESR - Automotive Product Range

AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR Max (m0)	MCI	100kHz	z RMS Cur	rent (A)
Part No.	Size	(μ F)	Voltage (V)	Temperature (°C)	Voltage (V)	Temperature (°C)	(μΑ) Max.	% Max.	Max. (mΩ) @ 100kHz	MSL	25°C	85°C	125°C
						t @ 85°C							
TPSA105*020T3000	Α	1	20	85	13	125	0.5	4	3000	1	0.158	0.142	0.063
TPSA155*020T3000	A	1.5	20	85	13	125	0.5	6	3000	1	0.158	0.142	0.063
TPSA225*020T3000	A	2.2	20	85	13	125	0.5	6	3000	1	0.158	0.142	0.063
TPSB225*020T1700 TPSA335*020T2500	B	2.2 3.3	20 20	85 85	13 13	125 125	0.5	6	1700 2500	1	0.224	0.201	0.089
TPSB335*020T1300	B	3.3	20	85	13	125	0.7	6	1300	1	0.173	0.130	0.102
TPSA475*020T1800	A	4.7	20	85	13	125	0.7	6	1800	1	0.204	0.230	0.102
TPSB475*020T0750	В	4.7	20	85	13	125	0.9	6	750	1	0.337	0.303	0.135
TPSB475*020T1000	В	4.7	20	85	13	125	0.9	6	1000	1	0.292	0.262	0.117
TPSB685*020T0600	В	6.8	20	85	13	125	1.4	6	600	1	0.376	0.339	0.151
TPSB685*020T1000	В	6.8	20	85	13	125	1.4	6	1000	1	0.292	0.262	0.117
TPSC685*020T0700	С	6.8	20	85	13	125	1.4	6	700	1	0.396	0.357	0.159
TPSB106*020T0500	В	10	20	85	13	125	2	6	500	1	0.412	0.371	0.165
TPSB106*020T1000	В	10	20 20	85 85	13 13	125 125	2	6	1000 500	1 1	0.292	0.262	0.117
TPSC106*020T0500 TPSC106*020T0700	C	10	20	85	13	125	2	6	700	1	0.469	0.422	0.159
TPSB156*020T0500	В	15	20	85	13	125	3	6	500	1	0.412	0.371	0.165
TPSC156*020T0400	C	15	20	85	13	125	3	6	400	1	0.524	0.472	0.210
TPSC156*020T0450	C	15	20	85	13	125	3	6	450	1	0.494	0.445	0.198
TPSC226*020T0400	Č	22	20	85	13	125	4.4	6	400	1	0.524	0.472	0.210
TPSD226*020T0200V	D	22	20	85	13	125	4.4	6	200	3	0.866	0.779	0.346
TPSD226*020T0300V	D	22	20	85	13	125	4.4	6	300	3	0.707	0.636	0.283
TPSC336*020T0300	С	33	20	85	13	125	6.6	6	300	1	0.606	0.545	0.242
TPSD336*020T0160V	D	33	20	85	13	125	6.6	6	160	3	0.968	0.871	0.387
TPSD336*020T0200V	D	33	20	85	13	125	6.6	6	200	3	0.866	0.779	0.346
TPSD476*020T0200V	D	47 68	20 20	85 85	13 13	125 125	9.4 13.6	6	200	3	0.866 1.000	0.779	0.346
TPSD686*020T0150V TPSD686*020T0200V	D	68	20	85	13	125	13.6	6	150 200	3	0.866	0.900	0.346
TPSD686*020T0300V	D	68	20	85	13	125	13.6	6	300	3	0.707	0.636	0.283
TPSE686*020T0125V	E	68	20	85	13	125	13.6	6	125	3	1.149	1.034	0.460
TPSE686*020T0150V	Ē	68	20	85	13	125	13.6	6	150	3	1.049	0.944	0.420
TPSE686*020T0200V	Е	68	20	85	13	125	13.6	6	200	3	0.908	0.817	0.363
TPSE107*020T0100V	E	100	20	85	13	125	20	6	100	3	1.285	1.156	0.514
TPSE107*020T0150V	E	100	20	85	13	125	20	6	150	3	1.049	0.944	0.420
TPSE107*020T0200V	E	100	20	85	13	125	20	6	200	3	0.908	0.817	0.363
TPSA474*025T7000	Ι Λ	0.47	O.E.	0.5	25 Vol	t @ 85°C	O.F.	1	7000	4	0.104	0.000	0.041
TPSA474 02517000 TPSA684*025T6000	A	0.47	25 25	85 85	17	125 125	0.5	4	6000	1	0.104	0.093	0.041
TPSA105*025T4000	A	1.0	25	85	17	125	0.5	4	4000	1	0.112	0.101	0.045
TPSA155*025T3000	A	1.5	25	85	17	125	0.5	6	3000	1	0.158	0.120	0.063
TPSA225*025T2500	Α	2.2	25	85	17	125	0.6	6	2500	1	0.173	0.156	0.069
TPSB225*025T0900	В	2.2	25	85	17	125	0.6	6	900	1	0.307	0.277	0.123
TPSB225*025T1200	В	2.2	25	85	17	125	0.6	6	1200	1	0.266	0.240	0.106
TPSB225*025T2500	В	2.2	25	85	17	125	0.6	6	2500	1	0.184	0.166	0.074
TPSB335*025T0750	В	3.3	25	85	17	125	0.8	6	750	1	0.337	0.303	0.135
TPSB335*025T1500	В	3.3	25 25	85	17 17	125 125	0.8	6	1500	1	0.238	0.214	0.095
TPSB335*025T2000	В	3.3	レッカー	85	1 17		0.8	6	2000	1	0.206	0.186	0.082
TDQR/75*005T0700									700	1	U 3 \ 0		
TPSB475*025T0700	В	4.7	25	85	17	125	1.2	6	700	1	0.348	0.314	0.139
TPSB475*025T0900	ВВ	4.7 4.7	25 25	85 85	17 17	125 125	1.2 1.2	6	900	1	0.307	0.314 0.277	0.139 0.123
TPSB475*025T0900 TPSC475*025T0700	B B C	4.7 4.7 4.7	25 25 25	85 85 85	17 17 17	125 125 125	1.2 1.2 1.2	6 6 6	900 700	1	0.307 0.396	0.314 0.277 0.357	0.139 0.123 0.159
TPSB475*025T0900	ВВ	4.7 4.7	25 25	85 85	17 17	125 125	1.2 1.2	6	900	1	0.307	0.314 0.277	0.139 0.123 0.159 0.139
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700	B B C B	4.7 4.7 4.7 6.8	25 25 25 25	85 85 85 85	17 17 17 17	125 125 125 125	1.2 1.2 1.2 1.7	6 6 6	900 700 700	1 1	0.307 0.396 0.348	0.314 0.277 0.357 0.314	0.139 0.123 0.159 0.139 0.188
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0500 TPSC685*025T0600 TPSC685*025T0700	B B C B C C	4.7 4.7 4.7 6.8 6.8 6.8 6.8	25 25 25 25 25 25 25 25	85 85 85 85 85 85 85	17 17 17 17 17 17 17	125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7	6 6 6 6 6 6	900 700 700 500 600 700	1 1 1 1 1 1	0.307 0.396 0.348 0.469	0.314 0.277 0.357 0.314 0.422 0.385 0.357	0.139 0.123 0.159 0.139 0.188 0.171 0.159
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0500 TPSC685*025T0500 TPSC685*025T0700 TPSC106*025T0300	B B C B C C C	4.7 4.7 4.7 6.8 6.8 6.8 6.8	25 25 25 25 25 25 25 25 25 25	85 85 85 85 85 85 85 85	17 17 17 17 17 17 17 17	125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 1.7 2.5	6 6 6 6 6 6 6	900 700 700 500 600 700 300	1 1 1 1 1 1 1	0.307 0.396 0.348 0.469 0.428 0.396 0.606	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0500 TPSC685*025T0600 TPSC685*025T0700 TPSC106*025T0300 TPSC106*025T0300	B B C C C C	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10	25 25 25 25 25 25 25 25 25 25 25 25	85 85 85 85 85 85 85 85 85	17 17 17 17 17 17 17 17	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 1.7 2.5 2.5	6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500	1 1 1 1 1 1 1 1 1	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.422	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.188
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0500 TPSC685*025T0600 TPSC685*025T0700 TPSC685*025T0700 TPSC106*025T0300 TPSC106*025T0300 TPSC106*025T0500V	B B C C C C C	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10 10	25 25 25 25 25 25 25 25 25 25 25 25 25	85 85 85 85 85 85 85 85 85 85	17 17 17 17 17 17 17 17 17	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 1.7 2.5 2.5 2.5	6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500	1 1 1 1 1 1 1 1 3	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.422 0.493	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.188 0.219
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0500 TPSC685*025T0600 TPSC685*025T0600 TPSC106*025T0300 TPSC106*025T0300 TPSC106*025T0500 TPSC156*025T0500V TPSC156*025T0220	B B C C C C C C C C C C C C C C C C C C	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10 10 10	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85	17 17 17 17 17 17 17 17 17 17	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.7 1.7 1.7 1.7 2.5 2.5 2.5 3.8	6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 500	1 1 1 1 1 1 1 1 3 1 1	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548 0.707	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.422 0.493 0.636	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.188 0.219 0.283
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0500 TPSC685*025T0600 TPSC106*025T0300 TPSC106*025T0300 TPSC106*025T0500 TPSD106*025T0500V TPSC156*025T0500V TPSC156*025T0300	B B C C C C C C C C C C C C C C C C C C	4.7 4.7 4.7 6.8 6.8 6.8 10 10 10 15	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85	17 17 17 17 17 17 17 17 17 17 17	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.7 1.7 1.7 1.7 2.5 2.5 2.5 3.8 3.8	6 6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 500 220 300	1 1 1 1 1 1 1 1 3 1	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548 0.707 0.606	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.422 0.493 0.636 0.545	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.188 0.219 0.283 0.242
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0500 TPSC685*025T0600 TPSC685*025T0700 TPSC106*025T0300 TPSC106*025T0500 TPSD106*025T0500 TPSD106*025T0500 TPSC156*025T0220 TPSC156*025T0300 TPSD156*025T0300	B B C C C C C C C C D D C C C D D D C C C C D	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10 10 10 15 15	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85 85	17 17 17 17 17 17 17 17 17 17 17 17	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.7 1.7 1.7 1.7 2.5 2.5 2.5 3.8 3.8	6 6 6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 500 500 300 300	1 1 1 1 1 1 1 1 1 3 1 1 3	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548 0.707 0.606 0.707	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.422 0.493 0.636 0.545 0.636	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.188 0.219 0.283 0.242 0.283
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0700 TPSC685*025T0600 TPSC685*025T0600 TPSC106*025T0300 TPSC106*025T0500 TPSC156*025T0500V TPSC156*025T0300 TPSC156*025T0300 TPSC156*025T0300 TPSC156*025T0300V	B B C C C C C C C C C C C C C C C C C C	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10 10 15 15 15 22	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85 85 8	17 17 17 17 17 17 17 17 17 17 17 17 17	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 1.7 2.5 2.5 2.5 3.8 3.8 3.8 5.5	6 6 6 6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 500 220 300 300 300 275	1 1 1 1 1 1 1 1 3 1 1 3 1	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548 0.707 0.606 0.707	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.422 0.493 0.636 0.569	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.219 0.283 0.242 0.283 0.253
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0700 TPSC685*025T0600 TPSC685*025T0600 TPSC106*025T0300 TPSC106*025T0500 TPSC156*025T0500V TPSC156*025T0220 TPSC156*025T0300V TPSC156*025T0300V TPSC156*025T0300V TPSC26*025T0300V	B B C C C C C C C C C C C C C C C C C C	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10 10 15 15 15 22 22	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85 85 8	17 17 17 17 17 17 17 17 17 17 17 17 17 1	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 2.5 2.5 2.5 3.8 3.8 5.5 5.5	6 6 6 6 6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 500 220 300 300 275 400	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548 0.707 0.606 0.707 0.632	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.422 0.493 0.636 0.545 0.636 0.569	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.283 0.242 0.283 0.253 0.210
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0500 TPSC685*025T0600 TPSC685*025T0700 TPSC106*025T0300 TPSC106*025T0500 TPSC156*025T0500V TPSC156*025T0500V TPSC156*025T0300V TPSC156*025T0300V TPSC156*025T0300V TPSC26*025T0300V TPSC26*025T0300V TPSC226*025T0300V TPSC226*025T0200V	B B C C C C C C C C C C C C C C C C C C	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10 10 15 15 15 22 22 22	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85 85 8	17 17 17 17 17 17 17 17 17 17 17 17 17 1	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 1.7 2.5 2.5 2.5 3.8 3.8 3.8 5.5 5.5	6 6 6 6 6 6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 500 220 300 300 300 275	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548 0.707 0.606 0.707 0.632 0.524	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.422 0.493 0.636 0.545 0.636 0.569 0.472	0.139 0.123 0.159 0.188 0.175 0.171 0.171 0.159 0.242 0.188 0.219 0.283 0.242 0.283 0.242 0.283 0.242
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0700 TPSC685*025T0500 TPSC685*025T0700 TPSC106*025T0300 TPSC106*025T0500 TPSC156*025T0500 TPSC156*025T0220 TPSC156*025T0300V TPSC26*025T0300V	B B C C C C C C C C C C C C C C C C C C	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10 10 15 15 15 22 22	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85 85 8	17 17 17 17 17 17 17 17 17 17 17 17 17 1	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 2.5 2.5 2.5 3.8 3.8 5.5 5.5	6 6 6 6 6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 500 220 300 300 275 400	1 1 1 1 1 1 1 1 1 1 3 1 1 1 3 1 1 1 3	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548 0.707 0.606 0.707 0.632	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.422 0.493 0.636 0.545 0.636 0.569	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.283 0.242 0.283 0.253 0.210 0.346 0.346 0.346 0.346
TPSB475*025T0900 TPSC475*025T0700 TPSC685*025T0700 TPSC685*025T0500 TPSC685*025T0500 TPSC685*025T0700 TPSC685*025T0700 TPSC106*025T0300 TPSC106*025T0500V TPSC156*025T0500V TPSC156*025T0300 TPSD156*025T0300V TPSC226*025T0300V TPSC226*025T0275 TPSC226*025T0275 TPSC226*025T0200V TPSD226*025T0200V TPSD226*025T0300V	B B C C C C C C C C C C C C C C C C C C	4.7 4.7 4.7 6.8 6.8 6.8 10 10 15 15 22 22 22	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85 85 8	17 17 17 17 17 17 17 17 17 17 17 17 17 1	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 2.5 2.5 2.5 3.8 3.8 3.8 5.5 5.5 5.5	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 220 300 225 400 200 300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548 0.707 0.606 0.707 0.632 0.524 0.866 0.707	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.493 0.636 0.545 0.636 0.569 0.472 0.779	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.283 0.242 0.283 0.253 0.210 0.346 0.283 0.346
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0500 TPSC685*025T0500 TPSC685*025T0700 TPSC106*025T0500 TPSC106*025T0500 TPSC106*025T0500 TPSD106*025T0500V TPSC156*025T0300 TPSD156*025T0300V TPSC226*025T0300V TPSC226*025T0275 TPSC226*025T0200V TPSD226*025T0200V TPSD226*025T0300V TPSD226*025T0300V TPSD226*025T0300V	B B C C C C C C C C C D D C C C D D D D	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10 10 15 15 15 22 22 22 22 33	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85 85 8	17 17 17 17 17 17 17 17 17 17 17 17 17 1	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 2.5 2.5 2.5 3.8 3.8 3.8 5.5 5.5 5.5 5.5	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 500 220 300 275 400 200	1 1 1 1 1 1 1 1 1 1 3 1 1 3 3 1 1 3 3 3 3 3 3	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548 0.707 0.606 0.707 0.632 0.524 0.866 0.707	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.493 0.636 0.545 0.636 0.569 0.472 0.779	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.188 0.219 0.283 0.242 0.283 0.253 0.210 0.346 0.283 0.346 0.283
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0700 TPSC685*025T0600 TPSC685*025T0600 TPSC685*025T0700 TPSC106*025T0300 TPSC106*025T0500 TPSC156*025T0500 TPSC156*025T0220 TPSC156*025T0300V TPSC26*025T0300V TPSC226*025T0300V TPSD226*025T0200V TPSD226*025T0300V TPSD226*025T0300V TPSD226*025T0300V TPSD336*025T0300V TPSD336*025T0300V TPSD336*025T0300V TPSD336*025T0300V TPSD336*025T0300V TPSD476*025T031050V	B B C C C C C C C C C D D D D D D D D D	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10 10 15 15 15 22 22 22 22 22 24 27 27 28 29 20 20 21 21 22 22 22 22 22 22 22 22	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85 85 8	17 17 17 17 17 17 17 17 17 17 17 17 17 1	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 1.7 2.5 2.5 2.5 3.8 3.8 5.5 5.5 5.5 5.5 8.3 8.3 11.8	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 500 220 300 275 400 200 300 200 300 125 150	1 1 1 1 1 1 1 1 1 1 3 1 1 1 3 3 1 1 1 3	0.307 0.396 0.348 0.469 0.428 0.396 0.606 0.469 0.548 0.707 0.606 0.707 0.632 0.524 0.866 0.707 0.866 0.707 1.095	0.314 0.277 0.357 0.314 0.422 0.385 0.545 0.422 0.493 0.636 0.545 0.636 0.569 0.472 0.779 0.636	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.188 0.219 0.283 0.253 0.253 0.210 0.346 0.283 0.346 0.283 0.346 0.283 0.346 0.346 0.346 0.346 0.346 0.346 0.348 0.343 0.340
TPSB475*025T0900 TPSC475*025T0700 TPSB685*025T0700 TPSC685*025T0700 TPSC685*025T0600 TPSC685*025T0600 TPSC106*025T0300 TPSC106*025T0500 TPSD106*025T0500 TPSC156*025T0300 TPSC156*025T0300 TPSD156*025T0300 TPSD156*025T0300 TPSD226*025T0300V TPSD226*025T0300V TPSD226*025T0300V TPSD226*025T0300V TPSD336*025T0300V TPSD336*025T0300V TPSD336*025T0300V TPSD336*025T0300V TPSD336*025T0300V TPSD336*025T0300V TPSD336*025T0300V	B B C C C C C C C C C D D D D D D D D	4.7 4.7 4.7 6.8 6.8 6.8 6.8 10 10 15 15 15 22 22 22 22 22 22 33 33 47	25 25 25 25 25 25 25 25 25 25 25 25 25 2	85 85 85 85 85 85 85 85 85 85 85 85 85 8	17 17 17 17 17 17 17 17 17 17 17 17 17 1	125 125 125 125 125 125 125 125 125 125	1.2 1.2 1.2 1.7 1.7 1.7 1.7 2.5 2.5 2.5 3.8 3.8 5.5 5.5 5.5 5.5 8.3 8.3 11.8	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	900 700 700 500 600 700 300 500 500 220 300 275 400 200 300 300 200 300 215	1 1 1 1 1 1 1 1 1 3 1 1 3 3 1 1 1 3	0.307 0.396 0.348 0.469 0.606 0.469 0.548 0.707 0.606 0.707 0.632 0.524 0.866 0.707 1.095	0.314 0.277 0.357 0.314 0.422 0.385 0.357 0.545 0.422 0.493 0.636 0.545 0.636 0.569 0.472 0.779 0.636 0.779 0.636 0.986	0.139 0.123 0.159 0.139 0.188 0.171 0.159 0.242 0.188 0.219 0.283 0.253 0.210 0.346 0.283 0.346 0.283 0.346 0.283 0.346 0.283 0.346 0.346



Low ESR - Automotive Product Range

RATINGS & PART NUMBER REFERENCE

AVX	Case	Capacitance	Rated	Rated	Category	Category	DCL	DF	ESR	MOL	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
			(*)	(0)		t @ 85°C	IVIGA.	IVIGA.	@ TOURTIZ				
TPSA334*035T6000	ΙΑ	0.33	35	85	23	125	0.5	4	6000	1	0.112	0.101	0.045
TPSA474*035T6000	A	0.47	35	85	23	125	0.5	4	6000	-i	0.112	0.101	0.045
TPSA684*035T6000	A	0.68	35	85	23	125	0.5	4	6000	1	0.112	0.101	0.045
TPSA105*035T3000	A	1	35	85	23	125	0.5	4	3000	1	0.158	0.142	0.063
TPSB105*035T2000	В	1	35	85	23	125	0.5	4	2000	1	0.206	0.186	0.082
TPSA155*035T3000	Ā	1.5	35	85	23	125	0.5	6	3000	1	0.158	0.142	0.063
TPSB155*035T2500	В	1.5	35	85	23	125	0.5	6	2500	1	0.184	0.166	0.074
TPSB225*035T0750	В	2.2	35	85	23	125	0.8	6	750	1	0.337	0.303	0.135
TPSB225*035T1500	В	2.2	35	85	23	125	0.8	6	1500	1	0.238	0.214	0.095
TPSB225*035T2000	В	2.2	35	85	23	125	0.8	6	2000	1	0.206	0.186	0.082
TPSC225*035T1000	C	2.2	35	85	23	125	0.8	6	1000	1	0.332	0.298	0.133
TPSB335*035T1000	В	3.3	35	85	23	125	1.2	6	1000	1	0.292	0.262	0.117
TPSC335*035T0700	C	3.3	35	85	23	125	1.2	6	700	1	0.396	0.357	0.159
TPSB475*035T0700	В	4.7	35	85	23	125	1.6	6	700	1	0.348	0.314	0.139
TPSB475*035T1500	В	4.7	35	85	23	125	1.6	6	1500	1	0.238	0.214	0.095
TPSC475*035T0600	C	4.7	35	85	23	125	1.6	6	600	1	0.428	0.385	0.171
TPSD475*035T0700V	Ď	4.7	35	85	23	125	1.6	6	700	3	0.463	0.417	0.185
TPSC685*035T0350	C	6.8	35	85	23	125	2.4	6	350	1	0.561	0.505	0.224
TPSD685*035T0400V	Ď	6.8	35	85	23	125	2.4	6	400	3	0.612	0.551	0.245
TPSD685*035T0500V	D	6.8	35	85	23	125	2.4	6	500	3	0.548	0.493	0.219
TPSC106*035T0600	C	10	35	85	23	125	3.5	6	600	1	0.428	0.385	0.171
TPSD106*035T0300V	Ď	10	35	85	23	125	3.5	6	300	3	0.707	0.636	0.283
TPSD156*035T0300V	D	15	35	85	23	125	5.3	6	300	3	0.707	0.636	0.283
TPSD226*035T0200V	D	22	35	85	23	125	7.7	6	200	3	0.866	0.779	0.346
TPSD226*035T0300V	D	22	35	85	23	125	7.7	6	300	3	0.707	0.636	0.283
TPSD226*035T0400V	D	22	35	85	23	125	7.7	6	400	3	0.612	0.551	0.245
TPSE226*035T0200V	Ē	22	35	85	23	125	7.7	6	200	3	0.908	0.817	0.363
TPSE226*035T0300V	E	22	35	85	23	125	7.7	6	300	3	0.742	0.667	0.297
TPSE336*035T0250V	Е	33	35	85	23	125	11.6	6	250	3	0.812	0.731	0.325
TPSE336*035T0300V	Е	33	35	85	23	125	11.6	6	300	3	0.742	0.667	0.297
					50 Vol	t @ 85°C							
TPSA224*050T7000	Α	0.22	50	85	33	125	0.5	4	7000	1	0.104	0.093	0.041
TPSA334*050T7000	Α	0.33	50	85	33	125	0.5	4	7000	1	0.104	0.093	0.041
TPSA474*050T6500	Α	0.47	50	85	33	125	0.5	4	6500	1	0.107	0.097	0.043
TPSB474*050T6000	В	0.47	50	85	33	125	0.5	4	6000	1	0.119	0.107	0.048
TPSB684*050T4000	В	0.68	50	85	33	125	0.5	4	4000	1	0.146	0.131	0.058
TPSB105*050T3000	В	1	50	85	33	125	0.5	6	3000	1	0.168	0.151	0.067
TPSC105*050T2500	С	1	50	85	33	125	0.5	4	2500	1	0.210	0.189	0.084
TPSC155*050T1500	С	1.5	50	85	33	125	0.8	6	1500	1	0.271	0.244	0.108
TPSC155*050T2000	С	1.5	50	85	33	125	0.8	6	2000	1	0.235	0.211	0.094
TPSC225*050T1500	С	2.2	50	85	33	125	1.1	8	1500	1	0.271	0.244	0.108
TPSD225*050T1200V	D	2.2	50	85	33	125	1.1	6	1200	3	0.354	0.318	0.141
TPSC335*050T1000	С	3.3	50	85	33	125	1.6	6	1000	1	0.332	0.298	0.133
TPSD335*050T0800V	D	3.3	50	85	33	125	1.7	6	800	3	0.433	0.390	0.173
TPSC475*050T0800	С	4.7	50	85	33	125	2.4	6	800	1	0.371	0.334	0.148
TPSD475*050T0500V	D	4.7	50	85	33	125	2.4	6	500	3	0.548	0.493	0.219
TPSD475*050T0700V	D	4.7	50	85	33	125	2.4	6	700	3	0.463	0.417	0.185
TPSD685*050T0500V	D	6.8	50	85	33	125	3.4	6	500	3	0.548	0.493	0.219
TPSD685*050T0600V	D	6.8	50	85	33	125	3.4	6	600	3	0.500	0.450	0.200
TPSD106*050T0500V	D	10	50	85	33	125	5	6	500	3	0.548	0.493	0.219
TPSE106*050T0250V	Е	10	50	85	33	125	5	6	250	3	0.812	0.731	0.325
TPSE106*050T0300V	Е	10	50	85	33	125	5	6	300	3	0.742	0.667	0.297
TPSE106*050T0400V	Е	10	50	85	33	125	5	6	400	3	0.642	0.578	0.257
TPSE106*050T0500V	Е	10	50	85	33	125	5	6	500	3	0.574	0.517	0.230
11 3L 100 030 10300 V													

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

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

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

For typical weight and composition see page 212.

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.



^{*}Please use "U" instead of "T" in the suffix letter for 13" reel packaging

Please use specific PN for automotive version – see "HOW TO ORDER".



Low ESR - Automotive Product Range

QUALIFICATION TABLE

TEST		TP	S automotive	series (Temperature i	range -	55°C to	+125°C)				
IESI		Condition			Cha	aracteri	stics				
	Determine	after application of rated	d voltage for 2000	Visual examination no visible damage							
	+48/-0 ho	urs at 85±2°C and then le	eaving 1-2 hours at	DCL	1.25 x initial limit						
Endurance		perature. Also determine gory voltage for 2000 +48		ΔC/C	withi	1 ±10%	of initial	value			
	then leavir	ng 1-2 hours at room tem	perature. Power	DF	initial	limit					
	supply imp	bedance to be $\leq 0.1\Omega/V$.	•	ESR	1.25	x initial l	imit				
				Visual examination	no vi	sible daı	nage				
				DCL	1.25	x initial l	imit				
Storage Life	125°C, 0	V, 2000h		ΔC/C	withi	n ±10%	of initial	value			
•				DF	initial	limit					
				ESR	1.25	x initial l	imit				
				Visual examination	no vi	sible daı	nage				
		e after storage without a and 95±2% relative hu		DCL	1.5 x	initial lir	nit				
Humidity		then recovery 1-2 hou		ΔC/C	within ±10% of initial value						
•	temperatu		. o at 100	DF	1.2 x initial limit						
				ESR	1.25	x initial l	imit				
				Visual examination	no vi	sible daı	nage				
Biased	Determine	after leaving for 1000	hours at 85+2°C.	DCL	2 x ir	nitial limi	t				
Humidity	85% relat	ive humidity and rated	voltage and then	ΔC/C	withi	า ±10%	of initial	value			
numunty	recovery	1-2 hours at room temp	erature.	DF	1.2 x initial limit						
				ESR	1.25 x initial limit						
	Step	Temperature°C	Duration(min)		+20°C	-55°C	+20°C	+85°C	+125°C	+20°C	
Temperature	1	+20±2	15	DCL	IL*	n/a	IL*	10 x IL*	12.5 x IL*	IL*	
Stability	2	-55+0/-3 +20+2	<u>15</u> 15	ΔC/C	n/a	+0/-10%	±5%	+10/-0%	+12/-0%	±5%	
Otability	4	+85+3/-0	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	11 *	
	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*	
		perature: 125°C+3/0°C		Visual examination	no vi	sible daı	mage				
Surge	Surge vol	ge: Category voltage tage: 1.3 x category v	oltage at 125°C	DCL	initial	limit					
Voltage	Discharge	otection resistance 10 e resistance: 1000Ω of cycles: 1000x	UU±1UU(1	ΔC/C	withi	1 ±5% c	f initial v	/alue			
		ration: 6 min; 30 sec c 5 min 30 sec di		DF	initial	limit					
		5 min 50 360 di	oonarge	ESR	1.25	x initial l	imit				

*Initial Limit

