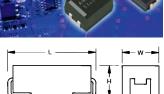


Conductive Polymer Solid Electrolytic Chip Capacitors





A, B, C, D, E, G, H, K, S, T, **U, W, X, Y, 5 CASE**

XXXXX ~

∧ 476 E

XXXXX

N, P, R CASE

106

AVX LOGO

AVX LOGO Polymer

- ID Code

· Capacitance Value in pF 476 = 47µF

Rated Voltage

Rated Voltage Code J = 6.3V

MARKING

FEATURES

- Conductive polymer electrode
- Benign failure mode under recommended use conditions
- Lower ESR
- 3x reflow 260°C compatible
- CV range: 0.47-470µF / 2.5-125V
- 18 case sizes available

APPLICATIONS

• Smart phone, Tablets, Notebook, LCD TV, Power supplies





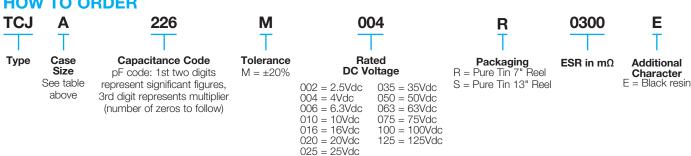


Elektra Award 2010

CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H+0.20 (0.008) -0.10 (0.004)	W ₁ ±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
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)
E	2917	7343-43	7.30 (0.287)	4.30 (0.169)	4.10 (0.162)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
G	1206	3216-15	3.20 (0.126)	1.60 (0.063)	1.50 (0.059) max	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
Н	1210	3528-15	3.50 (0.138)	2.80 (0.110)	1.50 (0.059) max	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
K	1206	3216-10	3.20 (0.126)	1.60 (0.063)	1.00 (0.039) max	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
N	0805	2012-10	2.05 (0.081)	1.30 (0.051)	1.00 (0.039) max	1.00 (0.039)	0.50 (0.020)	0.85 (0.033)
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)
U	2924	7361-43	7.30 (0.287)	6.10 (0.240)	4.10 (0.162)	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)
5	2917	7343-40	7.30 (0.287)	4.30 (0.169)	3.80 (0.150)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
		١	W1 dimension a	applies to the termi	nation width for A d	imensional area o	only.	

HOW TO ORDER



TECHNICAL SPECIFICATIONS (Common for all TCJ series)

Technical Data:	All technical data relate to an ambient temperature of +25°C
Capacitance Tolerance:	±20%
Leakage Current DCL:	0.1CV
Reliability:	1% per 1000 hours at 85°C, V_R with 0.1 Ω /V series impedance, 60% confidence level
Resistance to soldering heat:	3x260°C peak for max. 10s reflow

NOTE: Conductive Polymer Capacitors are designed to operate within the limits of the environmental conditions specified for each series. If operated continuously at their maximum temperature and / or humidity limit, or beyond these limits, capacitors may exhibit a parametric shift in capacitance and increases in ESR. These changes may occur earlier if the specified environmental conditions are exceeded. Similarly, their normal operational time period will be significantly extended if their general duty cycle includes operation below maximum temperature within humidity controlled environments. Careful attention should be paid to maximum temperature with associated high humidity environments as well as voltage derating, ripple current and current surges. Please reference the AVX Conductive Polymer Capacitor Guidelines for more information or contact factory for application assistance.



Conductive Polymer Solid Electrolytic Chip Capacitors

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

С	ар					Rated Vol	tage DC (V) to 85°C						
μF	Code	2.5V (e)	4V (G)	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)	63V (<u>J</u>)	75V (<u>P</u>)	100V (<u>A</u>)	125V (<u>B</u>)
0.47	474										B(400)			
0.68	684									B(400)	B(300)			
1.0	105							P(500)		B(300)	B(300) C(300)			
1.5	155								B(200)	B(300) C(300)	C(300)			
2.2	225								B(200)	C(300)	C(200)			
3.3	335								B(200)	C(200)	C(200)			D(250)
4.7	475				K(300,500) R(500)			B(100,150)	B(200) C(200)	C(200) X(250) Y(250)	C(200) D(120)	D(150)	D(250)	
6.8	685					A(200)		A(150), B(90,150) T(100,150)	C(200)	C(200) D(120)	D(120) E(100,150)	D(120)		
10	106			A(300) N(200,250,500) R(500)	A(200,300)	A(200) B(100,200) T(100,150,200)	A(150)	A(150) B(90,100,150)	B(200) C(200) Y(70)	D(90,120) E(70,100)	E(100,150)			
15	156		A(300)	A(300)	A(200)	B(150)		B(100,150) Y(90)	B(200), C(200) D(70,100) Y(70,100)	E(70,100)				
22	226		A(300)	A(300), K(400) N(500), R(500) S(400), T(150)	B(300) T(70,150)	A(300) B(150)	B(90,150) Y(70)	B(100,150), C(100) D(60,100) Y(70)	D(70,100) Y(150)					
33	336		A(300)	A(200) B(70,200) T(150)	B(70,200) C(100) T(70,150)	A(200) H(150) Y(45,60,70)	Y(70)	D(60,100) X(70,100) Y(60,70,100)	D(70,100) E(55,70) U(70), Y(100)					
47	476		A(200) T(80)	A(70,100,200), B(70) K(150,200,400) P(500), R(500) T(55,70,80,120)	B(70) C(100) H(100)	X(45,70) Y(45,70)	D(55) X(55,70) Y(70)	D(60,100) E(50) Y(100)	E(55), U(70) Y(100)					
68	686	A(250)	A(250) B(70) T(80)	B(55,70) C(100), H(100) T(200), W(70)	D(45,55) Y(45,55)	D(50) Y(50)	D(55) E(45) Y(50)	D(70) E(50) Y(100)						
100	107	A(200), B(70)	A(200) B(40,70) G(300) T(70,150)	A(100,150) B(40,45,55,70) T(70,200)	D(18,25,45,55,80) Y(18,25,45,55)	D(50), E(40) Y(50)	D(55) E(45) Y(55)	D(55,70) E(80) U(70)						
150	157	B(70)	B(70), D(15) Y(15,25,45)	B(25,35,45,55,70) D(12,15,25,40) H(200), W(40,70) Y(15,25,40)	D(25,40,45,55) Y(25,40,45,55)	D(40,50,70) E(40) Y(40,50,70)		U(70)						
220	227	B(35,45,70)	B(35,45,55,60,70) D(12,15,25,40) Y(15,25,40)	B(70,200) D(12,15,25,35,40,50) H(170) Y(15,25,35,40,50)	D(15,25,40,50) Y(15,25,40,50)	D(50	U(70)							
330	337	B(35,45,70) Y(25,40)	D(15,25,40,50) Y(15,25,40,50)	D(12,15,18,25,40,50) Y(15,25,40,50)	D(25) 5(35,100)	E(50,70) 5(100)								
470	477	D(12,15,25,40,50) Y(15,25,40,50)	D(10,12,15,25,40,50) Y(15,25,40,50)	D(25) X(50,55,100)		5(100)								

Released ratings, (ESR ratings in mOhms in parentheses)

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



Conductive Polymer Solid Electrolytic Chip Capacitors

AVX	Case	Capacitance	Rated	Maximum Operating	DCL	DF	ESR Max.	10	00kHz RMS	Current (m	nA)	Product	
Part No.	Size	(µF)	Voltage (V)	Temperature (°C)	Max. (μA)	Max. (%)	@ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Category	MSL
				105		t @ 85°C							
TCJA686M002#0250E TCJA107M002#0200E	A	68 100	2.5 2.5	105 105	17 25	6	250 200	600 700	400 500	300	_	3	3
TCJB107M002#0200E	В	100	2.5	125	25	6	70	1300	900	600	300	1	3
TCJB157M002#0070E	В	150	2.5	105	37.5	6	70	1300	900	600	-	3	3
TCJB227M002#0035E	В	220	2.5	105	55	8	35	1900	1300	900	-	3	3
TCJB227M002#0045E	В	220	2.5	105	55	8	45	1700	1200	800	_	3	3
TCJB227M002#0070E TCJB337M002#0035E	B	220 330	2.5 2.5	105 105	55 82.5	8	70 35	1300	900	600 900	_	3	3
TCJB337M002#0045E	В	330	2.5	105	82.5	8	45	1700	1200	800	_	3	3
TCJB337M002#0070E	В	330	2.5	105	82.5	8	70	1300	900	600	-	3	3
TCJY337M002#0025E	Y	330	2.5	105	82.5	6	25	2700	1900	1200	_	2	3
TCJY337M002#0040E TCJD477M002#0012	Y D	330 470	2.5 2.5	105 105	82.5 117.5	6	12	2200 4300	1500 3000	1000 1900	_	3 2	3
TCJD477M002#0015E	D	470	2.5	105	117.5	6	15	3900	2700	1800	_	2	3
TCJD477M002#0025E	D	470	2.5	105	117.5	6	25	3000	2100	1400	-	2	3
TCJD477M002#0040E	D	470	2.5	105	117.5	6	40	2400	1700	1100	-	3	3
TCJD477M002#0050E	D	470	2.5	105	117.5	6	50	2100	1500	900	_	3	3
TCJY477M002#0015 TCJY477M002#0025E	Y	470 470	2.5 2.5	85 105	117.5 117.5	6	15 25	3500 2700	2500 1900	1200	_	5	3
TCJY477M002#0040E	Y	470	2.5	105	117.5	6	40	2200	1500	1000	_	3	3
TCJY477M002#0050E	Y	470	2.5	105	117.5	6	50	1900	1300	900	_	3	3
TO 144 FOR 400 1 110000		15	_	105		@ 85°C	200	000	100	000	000		
TCJA156M004#0300E	A	15	4	125	6	6	300	600	400 400	300	200	1	3
TCJA226M004#0300E TCJA336M004#0300E	A	22 33	4	125 125	8.8 13.2	6	300	600	400	300	200	1	3
TCJA476M004#0200E	A	47	4	105	18.8	6	200	700	500	300	-	3	3
TCJT476M004#0080E	Т	47	4	105	18.8	8	80	1100	800	500	-	3	3
TCJA686M004#0250E	A	68	4	105	27.2	6	250	600	400	300	-	3	3
TCJB686M004#0070E TCJT686M004#0080E	B T	68 68	4	125 105	27.2 27.2	6 8	70 80	1300	900	600 500	300	3	3
TCJA107M004#0200E	A	100	4	105	40	6	200	700	500	300	_	3	3
TCJB107M004#0040E	В	100	4	105	40	8	40	1800	1300	800	_	3	3
TCJB107M004#0070E	В	100	4	125	40	8	70	1300	900	600	300	1	3
TCJG107M004#0300E	G	100	4	105	40	10	300	600	400	300	_	3	3
TCJT107M004#0070E TCJT107M004#0150E	+	100 100	4	105 105	40 40	8	70 150	1200 800	800 600	500 400	_	3	3
TCJB157M004#0130E	В	150	4	105	60	6	70	1300	900	600	_	3	3
TCJD157M004#0015	D	150	4	105	60	6	15	3900	2700	1800	-	2	3
TCJY157M004#0015	Υ	150	4	105	60	6	15	3500	2500	1600	_	2	3
TCJY157M004#0025E	Y	150 150	4	105 105	60 60	6	25 45	2700	1900 1400	1200 900	_	2	3
TCJY157M004#0045E TCJB227M004#0035E	В	220	4	105	88	10	35	1900	1300	900	_	3	3
TCJB227M004#0045E	В	220	4	105	88	10	45	1700	1200	800	_	3	3
TCJB227M004#0055	В	220	4	105	88	10	55	1500	1100	700	_	3	3
TCJB227M004#0060E	В	220	4	105	88	10	60	1400	1000	600	_	3	3
TCJB227M004#0070E TCJD227M004#0012	B D	220 220	4	105 105	<u>88</u> 88	10	70 12	1300 4300	900 3000	600 1900	_	3 2	3
TCJD227M004#0015E	D	220	4	105	88	6	15	3900	2700	1800	_	2	3
TCJD227M004#0025E	D	220	4	105	88	6	25	3000	2100	1400	-	2	3
TCJD227M004#0040E	D	220	4	105	88	6	40	2400	1700	1100	-	2	3
TCJY227M004#0015 TCJY227M004#0025E	Y	220 220	4	105 105	88 88	6	15 25	3500 2700	2500 1900	1600 1200	_	2	3
TCJY227M004#0025E	Y	220	4	105	88	6	40	2200	1500	1000	_	3	3
TCJD337M004#0040E		330	4	105	132	6	15	3900	2700	1800	_	2	3
TCJD337M004#0025E	D	330	4	105	132	6	25	3000	2100	1400	_	2	3
TCJD337M004#0040E		330	4	105	132	6	40	2400	1700	1100	-	3	3
TCJD337M004#0050E	D Y	330	4	105	132	6	50	2100	1500	900	_	3	3
TCJY337M004#0015 TCJY337M004#0025E		330 330	4	85 105	132 132	6	15 25	3500 2700	2500 1900	1200	_	5	3
TCJY337M004#0040E	Y	330	4	105	132	6	40	2200	1500	1000	_	3	3
TCJY337M004#0050E		330	4	105	132	6	50	1900	1300	900	-	3	3
TCJD477M004#0010	D	470	4	105	188	6	10	4700	3300	2100	_	2	3
TCJD477M004#0012 TCJD477M004#0015E	D D	470 470	4	105 105	188 188	6	12 15	4300 3900	3000 2700	1900 1800	_	2 2	3
TCJD477M004#0015E		470	4	105	188	6	25	3000	2100	1400	_	2	3
TCJD477M004#0040E		470	4	105	188	6	40	2400	1700	1100	_	2	3
TCJD477M004#0050E		470	4	105	188	6	50	2100	1500	900	_	2	3
TCJY477M004#0015	Y	470	4	85	188	6	15	3500	2500	1200	_	5	3
TCJY477M004#0025E TCJY477M004#0040E		470 470	4	105 105	188 188	6	25 40	2700	1900 1500	1200 1000	_	3	3
TCJY477M004#0040E	Y	470	4	105	188	6	50	1900	1300	900	_	3	3
. 201						t @ 85°C							
TCJA106M006#0300E	Α	10	6.3	125	6	6	300	600	400	300	200	1	3
TCJN106M006#0200E		10	6.3	105	6	6	200	600	400	300	_	3	3
TCJN106M006#0250E TCJN106M006#0500E		10 10	6.3 6.3	105 105	<u>6</u> 6	6	250 500	600 400	400 300	300 200	_	3	3
TCJR106M006#0500E	R	10	6.3	105	6	6	500	400	300	200	_	3	3
			0	. 50					- 55			_	



Conductive Polymer Solid Electrolytic Chip Capacitors

Total color	AVX	Case	Capacitance	Rated	Maximum Operating	DCL	DF	ESR Max.	10	00kHz RMS	Current (m	nA)	Product	MCI
TCAPAZOMOSPICOSE R 22 0.3 125 132 6 300 600 400 300 200 1 3 3 3 TACAPAZOMOSPICOSE R 122 0.5 100 100 100 100 100 200 1 3 3 3 TACAPAZOMOSPICOSE R 122 0.5 100 100 100 100 100 100 100 1 3 3 3 3 TACAPAZOMOSPICOSE R 122 0.5 100 100 100 100 100 100 100 1 3 3 3 3 TACAPAZOMOSPICOSE R 122 0.5 100 100 100 100 100 100 100 1 3 3 3 3 TACAPAZOMOSPICOSE R 122 0.5 100 100 100 100 100 100 100 1 3 3 3 3 TACAPAZOMOSPICOSE R 122 0.5 100 100 100 100 100 100 100 100 1 3 3 3 3	Part No.	Size	(μF)	Voltage (V)	Temperature (°C)	Max. (μA)	Max. (%)	@ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Category	MSL
Telephonomenic Part					125			300					1	3
Total Tota														
TCLPSPMONGFRODE R 22 6.3 105 132 10 500 400 300 200 - 3 3 TOLDSPMONGFRODE R 22 6.3 105 132 8 400 500 400 200 - 3 3 3 TOLDSPMONGFRODE R 33 6.3 105 132 8 400 500 400 200 - 3 3 3 TOLDSPMONGFRODE R 33 6.3 105 132 8 400 500 400 200 - 3 3 3 TOLDSPMONGFRODE R 33 6.3 105 132 8 400 500 400 200 - 3 3 3 TOLDSPMONGFRODE R 33 6.3 105 132 8 400 500 400 500 600 000 10 1 3 3 TOLDSPMONGFRODE R 33 6.3 125 138 8 6 7 1300 500 600 600 400 200 1 3 3 TOLDSPMONGFRODE R 33 6.3 125 138 8 6 7 100 100 100 100 100 100 100 1 1 2 1 1 1 1														
TG.SEPSMOORFIGE: A 22 6.3 106 13.2 8 400 500 400 720 - 3 3 3 C. (1975) 100 100 100 100 - 3 3 3 1 C. (1975) 100 100 100 100 1 - 3 3 3 1 C. (1975) 100 100 100 100 1 - 3 3 3 1 C. (1975) 100 100 100 100 1 - 3 3 3 1 C. (1975) 100 100 100 100 100 1 - 3 3 3 1 C. (1975) 100 100 100 100 100 100 100 1 1 3 1 C. (1975) 100 100 100 100 100 100 1 1 3 1 C. (1975) 100 100 100 100 100 100 1 1 3 1 C. (1975) 100 100 100 100 100 1 1 3 1 C. (1975) 100 100 100 100 1 1 3 1 C. (1975) 100 100 100 100 1 1 3 1 C. (1975) 100 100 100 1 1 3 1 C. (1975) 100 100 100 100 1 1 3 1 C. (1975) 100 100 100 1 1 3 1 C. (1975) 100 100 100 100 100 1 1 3 1 C. (1975) 100 100 100 100 100 1 1 3 1 C. (1975) 100 100 100 100 100 1 1 3 1 C. (1975) 100 100 100 100 100 100 100 100 100 10														3
TC/AGSMOODENOUTE B 33 6.3 106 19.8 6 200 700 600 300 - 3 3 3 100 100 500 500 500 500 500 500 500 500			22	6.3	105	13.2	8	400	500	400	200	-	3	3
TOLBSSMOOGROUPE B 33 6.3 125 19.8 6 70 1300 900 600 300 1 3 TOLBSSMOOGROUPE B 33 6.3 125 19.8 18 200 800 600 400 500 500 1 3 TOLBSSMOOGROUPE B 4 47 6.3 105 28.2 6 100 1000 700 500 - 3 3 3 TOLBSSMOOGROUPE A 47 6.3 105 28.2 6 100 1000 700 500 - 3 3 3 TOLBSSMOOGROUPE A 47 6.3 105 28.2 6 100 1000 700 500 - 3 3 3 TOLBSSMOOGROUPE A 47 6.3 105 28.2 6 100 1000 700 500 - 3 3 3 TOLBSSMOOGROUPE B 4 47 6.3 105 28.2 6 100 1000 700 500 - 3 3 3 TOLBSSMOOGROUPE B 4 47 6.3 105 28.2 6 100 1000 700 500 - 3 3 3 TOLBSSMOOGROUPE B 4 47 6.3 105 28.2 6 100 1000 700 500 300 300 300 300 300 300 300 300 3		Т										-		3
TC, BSSW0000F1020CE B 33 6.3 125 19.8 6. 200 800 800 400 200 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												-		
TGJ398000901026 T 339 6.3 105 19.8 8 150 800 600 400 - 3 3 3 T05 103 70 105 19.8 8 150 800 600 500 - 3 3 3 3 T05 103 105 105 105 105 105 105 105 105 105 105														
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TCJD337M006#0012 D 330 6.3 105 198 6 12 4300 3000 1900 - 3 3 TCJD337M006#0015E D 330 6.3 105 198 6 15 3900 2700 1800 - 3 3 TCJD337M006#0018E D 330 6.3 105 198 6 18 3500 2500 1600 - 3 3 TCJD337M006#0025E D 330 6.3 105 198 6 25 3000 2100 1400 - 3 3 TCJD337M006#0040E D 330 6.3 105 198 6 40 2400 1700 1100 - 2 3 TCJD337M006#0050E D 330 6.3 105 198 6 50 2100 1500 900 - 2 3 TCJY337M006#0050E Y 330 6.3 105														
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TCJD337M006#0018E D 330 6.3 105 198 6 18 3500 2500 1600 - 3 3 TCJD337M006#0025E D 330 6.3 105 198 6 25 3000 2100 1400 - 3 3 TCJD337M006#004DE D 330 6.3 105 198 6 40 2400 1700 1100 - 2 3 TCJV337M006#0050E D 330 6.3 105 198 6 50 2100 1500 900 - 2 3 TCJY337M006#0025E Y 330 6.3 105 198 12 15 3500 2500 - - 5 3 TCJY337M006#0040E Y 330 6.3 105 198 12 25 2700 1900 1200 - - 3 3 TCJY337M006#0050E Y 330 6.3	TCJD337M006#0015E									2700			3	3
TCJD337M006#0040E D 330 6.3 105 198 6 40 2400 1700 1100 - 2 3 TCJD337M006#0050E D 330 6.3 105 198 6 50 2100 1500 900 - 2 3 TCJY337M006#0015 Y 330 6.3 85 198 12 15 3500 2500 - - 5 3 TCJY337M006#0025E Y 330 6.3 105 198 12 25 2700 1900 1200 - 3 3 TCJY337M006#0040E Y 330 6.3 105 198 12 40 2200 1500 1000 - 3 3 TCJY337M006#0050E Y 330 6.3 105 198 12 50 1900 1300 900 - 3 3 TCJV3477M006#0050E Y 470 6.3 105	TCJD337M006#0018E		330	6.3	105	198	6	18	3500	2500	1600		3	3
TCJD337M006#0050E D 330 6.3 105 198 6 50 2100 1500 900 - 2 3 TCJY337M006#0015 Y 330 6.3 85 198 12 15 3500 2500 - - - 5 3 TCJY337M006#0025E Y 330 6.3 105 198 12 25 2700 1900 1200 - 3 3 TCJY337M006#0040E Y 330 6.3 105 198 12 40 2200 1500 1000 - 3 3 TCJY337M006#0050E Y 330 6.3 105 198 12 50 1900 1300 900 - 3 3 TCJV377M006#0050E Y 330 6.3 105 282 6 25 3000 2100 1400 - 2 3 TCJX477M006#0050 X 470 6.3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td></t<>														3
TCJY337M006#0015 Y 330 6.3 85 198 12 15 3500 2500 - - 5 3 TCJY337M006#0025E Y 330 6.3 105 198 12 25 2700 1900 1200 - 3 3 TCJY337M006#0040E Y 330 6.3 105 198 12 40 2200 1500 1000 - 3 3 TCJY337M006#0050E Y 330 6.3 105 198 12 50 1900 1300 900 - 3 3 TCJD477M006#0025E D 470 6.3 105 282 6 25 3000 2100 1400 - 2 3 TCJX477M006#0050 X 470 6.3 105 282 6 50 1900 1300 900 - 3 3 TCJX477M006#0055E X 470 6.3 105														3
TCJY337M006#0025E Y 330 6.3 105 198 12 25 2700 1900 1200 - 3 3 TCJY337M006#0040E Y 330 6.3 105 198 12 40 2200 1500 1000 - 3 3 TCJY337M006#0050E Y 330 6.3 105 198 12 50 1900 1300 900 - 3 3 TCJD477M006#0025E D 470 6.3 105 282 6 25 3000 2100 1400 - 2 3 TCJX477M006#0050 X 470 6.3 105 282 6 50 1900 1300 900 - 3 3 TCJX477M006#0055E X 470 6.3 105 282 6 55 1800 1300 900 - 3 3														
TCJY337M006#0040E Y 330 6.3 105 198 12 40 2200 1500 1000 - 3 3 TCJY337M006#0050E Y 330 6.3 105 198 12 50 1900 1300 900 - 3 3 TCJD477M006#0025E D 470 6.3 105 282 6 25 3000 2100 1400 - 2 3 TCJX477M006#0050 X 470 6.3 105 282 6 50 1900 1300 900 - 3 3 TCJX477M006#0055E X 470 6.3 105 282 6 55 1800 1300 800 - 3 3														3
TCJY337M006#0050E Y 330 6.3 105 198 12 50 1900 1300 900 - 3 3 TCJD477M006#0025E D 470 6.3 105 282 6 25 3000 2100 1400 - 2 3 TCJX477M006#0050 X 470 6.3 105 282 6 50 1900 1300 900 - 3 3 TCJX477M006#0055E X 470 6.3 105 282 6 55 1800 1300 800 - 3 3														3
TCJX477M006#0050 X 470 6.3 105 282 6 50 1900 1300 900 - 3 3 TCJX477M006#0055E X 470 6.3 105 282 6 55 1800 1300 800 - 3 3	TCJY337M006#0050E		330	6.3	105	198	12	50	1900	1300	900	-	3	3
TCJX477M006#0055E X 470 6.3 105 282 6 55 1800 1300 800 - 3 3														3
														3
- LGJX477MUUD#UTUUEL X 470 6.3 105 282 6 100 1300 900 600 = 3 3	TCJX477M006#0055E TCJX477M006#0100E	X	470	6.3	105	282	6	100	1300	900	600	_	3	3



Conductive Polymer Solid Electrolytic Chip Capacitors

AVX	Case	Capacitance	Rated	Maximum Operating	DCL	DF	ESR Max.	10	00kHz RMS	Current (n	nA)	Product	844
Part No.	Size	΄ (μF)	Voltage (V)	Temperature (°C)	Max. (μA)	Max. (%)	@ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Category	MS
CJK475M010#0300E	I V	4.7	10	105	10 Vol	t @ 85°C	300	500	400	200	l –	3	3
CJK475M010#0300E	K	4.7	10	105	4.7	6	500	400	300	200	_	3	3
CJR475M010#0500E	R	4.7	10	105	4.7	6	500	400	300	200	_	3	3
		10	10	125	10	6	200	700	500	300	200	1	3
CJA106M010#0200E	A											-	
CJA106M010#0300E	A	10	10	125	10	6	300	600	400	300	200	1	3
CJA156M010#0200E	A	15	10	125	15	6	200	700	500	300	200	1	3
JB226M010#0300E	В	22	10	125	22	6	300	600	400	300	200	1	(
CJT226M010#0070E	Т	22	10	105	22	6	70	1200	800	500	_	3	(
CJT226M010#0150E	T	22	10	105	22	6	150	800	600	400	_	3	(
JB336M010#0070E	В	33	10	125	33	6	70	1300	900	600	300	1	(
JB336M010#0200E	В	33	10	125	33	6	200	800	600	400	200	1	(
JC336M010#0100E	C	33	10	125	33	6	100	1300	900	600	300	1	
CJT336M010#0070E	Ť	33	10	105	33	6	70	1200	800	500	-	3	
UT336M010#0150E	Ť	33	10	105	33	6	150	800	600	400	_	3	
	В		10						900				
JB476M010#0070E		47		105	47	6	70	1300		600	-	3	
JC476M010#0100E	С	47	10	125	47	6	100	1300	900	600	300	1	(
JH476M010#0100E	H	47	10	105	47	6	100	1000	700	500	_	3	(
JD686M010#0045E	D	68	10	105	68	6	45	2200	1500	1000	_	3	(
JD686M010#0055E	D	68	10	105	68	6	55	2000	1400	900	-	3	(
JY686M010#0045E	Y	68	10	105	68	6	45	2000	1400	900	_	3	
CJY686M010#0055E	Y	68	10	105	68	6	55	1800	1300	800	_	3	
CJD107M010#0018	D	100	10	105	100	6	18	3500	2500	1600	_	2	
JD107M010#0025E	D	100	10	105	100	6	25	3000	2100	1400	_	2	
JD107M010#0045E	D	100	10	105	100	6	45	2200	1500	1000	_	3	;
JD107M010#0055E	D	100	10	105	100	6	55	2000	1400	900	-	3	(
JD107M010#0080E	D	100	10	105	100	6	80	1700	1200	800	-	3	;
CJY107M010#0018	Y	100	10	105	100	6	18	3200	2200	1400	_	2	,
JY107M010#0025E	Ý	100	10	105	100	6	25	2700	1900	1200		2	
CJY107M010#0025E	Y	100	10	105	100	6	45	2000	1400	900	_	3	
JY107M010#0045E											_		
	Y	100	10	105	100	6	55	1800	1300	800		3	(
JD157M010#0025E	D	150	10	105	150	6	25	3000	2100	1400	_	3	. ;
JD157M010#0040E	D	150	10	105	150	6	40	2400	1700	1100	_	3	(
JD157M010#0045E	D	150	10	105	150	6	45	2200	1500	1000	_	3	(
JD157M010#0055E	D	150	10	105	150	6	55	2000	1400	900	_	3	(
JY157M010#0025E	Υ	150	10	105	150	6	25	2700	1900	1200	_	3	,
JY157M010#0040E	Y	150	10	105	150	6	40	2200	1500	1000	_	3	
CJY157M010#0045E	Y	150	10	105	150	6	45	2000	1400	900	_	3	
CJY157M010#0045E	Ý	150	10	105	150	6	55	1800	1300	800	_	3	
CJD227M010#0015	D	220	10	105	220	6	15	3900	2700	1800	_	3	
JD227M010#0025E	D	220	10	105	220	6	25	3000	2100	1400	-	3	(
JD227M010#0040E	D	220	10	105	220	6	40	2400	1700	1100	_	3	(
JD227M010#0050E	D	220	10	105	220	6	50	2100	1500	900	_	3	(
CJY227M010#0015	Y	220	10	85	220	6	15	3500	2500	_	_	5	(
JY227M010#0025E	Y	220	10	105	220	6	25	2700	1900	1200	_	3	
JY227M010#0040E	Υ	220	10	105	220	6	40	2200	1500	1000	_	3	(
JY227M010#0050E	Ý	220	10	105	220	6	50	1900	1300	900		3	
JD337M010#0025E	Ď	330	10	105	330	6	25	3000	2100	1400		2	
U5337M010#0025E		330	10	105	330	10	35	2600	1800	1200		2	
	5										_		
J5337M010#0100E	5	330	10	105	330	10	100	1500	1100	700	_	2	,
14.0054.04.04.0005			10	105		t @ 85°C	1 000	700	T 500	000	000		
CJA685M016#0200E	A	6.8	16	125	10.9	6	200	700	500	300	200	1	
JA106M016#0200E	Α	10	16	125	16	6	200	700	500	300	200	1	
JB106M016#0100E	В	10	16	125	16	6	100	1100	800	500	300	1	
JB106M016#0200E	В	10	16	125	16	6	200	800	600	400	200	1	(
JT106M016#0100E	Т	10	16	125	16	6	100	1000	700	500	300	1	;
JT106M016#0150E	Т	10	16	125	16	6	150	800	600	400	200	1	,
JT106M016#0200E	Ť	10	16	125	16	6	200	700	500	300	200	1	,
JB156M016#0150E	В	15	16	125	24	6	150	900	600	400	200	1	
											200		
JA226M016#0300E	A	22	16	105	35.2	10	300	600	400	300		3	;
JB226M016#0150E	В	22	16	125	35.2	6	150	900	600	400	200	1	
JA336M016#0200E	Α	33	16	105	52.8	10	200	700	500	300	-	3	;
JH336M016#0150E	Н	33	16	105	52.8	6	150	800	600	400	_	3	;
JY336M016#0045E	Υ	33	16	105	52.8	6	45	2000	1400	900	-	2	
JY336M016#0060E	Y	33	16	105	52.8	6	60	1800	1300	800	_	2	- ;
JY336M016#0070E	Y	33	16	105	52.8	6	70	1600	1100	700	_	2	,
JX476M016#0045E	X	47	16	105	75.2	6	45	2000	1400	900	_	2	
CJX476M016#0070E	X	47	16	105	75.2	6	70	1600	1100	700	_	2	
JY476M016#0045E	Y	47	16	105	75.2	6	45	2000	1400	900	_	2	
JY476M016#0070E	Y	47	16	105	75.2	6	70	1600	1100	700	_	2	;
JD686M016#0050E		68	16	105	108.8	6	50	2100	1500	900	_	2	;
JY686M016#0050E	Υ	68	16	105	108.8	6	50	1900	1300	900	_	2	;
JD107M016#0050E	D	100	16	105	160	6	50	2100	1500	900	-	2	;
JE107M016#0040E	Ē	100	16	105	160	6	40	2500	1800	1100	_	2	,
CJY107M016#0050E	Y	100	16	105	160	6	50	1900	1300	900	_	2	
	D		16		240	6	40	2400				5	
JD157M016#0040E		150		85					1700	_	-		
CJD157M016#0050E	D	150	16	85	240	6	50	2100	1500	_		5	(
	l D	150	16	105	240	6	70	1800	1300	800	_	3	(
	E	150	16	105	240	6	40	2500	1800	1100	-	2	(
JE157M016#0040E		150			240 240		40	2500 2200			-		
CJD157M016#0070E CJE157M016#0040E CJY157M016#0040E CJY157M016#0050E	Е		16 16 16	105 85 85		6 6 6			1800 1500 1300	1100		2 5 5	3



Conductive Polymer Solid Electrolytic Chip Capacitors

AVX	Case	Capacitance	Rated	Maximum Operating	DCL	DF	ESR Max.	10	00kHz RMS	Current (m	nA)	Product	
Part No.	Size	΄ (μF)	Voltage (V)	Temperature (°C)	Max. (μA)	Max. (%)	@ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Category	MSL
TCJD227M016#0050E TCJE337M016#0050E	D E	220 330	16 16	105 105	352 528	10 10	50 50	2100 2200	1500 1500	900	_	2	3
TCJE337M016#0070E	E	330	16	105	528	10	70	1900	1300	900	_	2	3
TCJ5337M016#0100E	5	330	16	105	528	10	100	1500	1100	700	-	2	3
TCJ5477M016R0100E	5	470	16	105	752	10	100	1500	1100	700	_	3	3
						@ 85°C							
TCJA106M020#0150E	A	10	20	105	20 44	6	150	800	600	400	_	3	3
TCJB226M020#0090E TCJB226M020#0150E	B	22 22	20 20	105 105	44	6	90 150	1200 900	800 600	500 400	_	3	3
TCJY226M020#0070E	Y	22	20	105	44	6	70	1600	1100	700	_	2	3
TCJY336M020#0070E	Y	33	20	105	66	6	70	1600	1100	700	_	2	3
TCJD476M020#0055E	D	47	20	105	94	6	55	2000	1400	900	_	2	3
TCJX476M020#0055E	X	47	20	105	94	6	55	1800	1300	800	-	3	3
TCJX476M020#0070E	X	47	20	105	94	6	70	1600	1100	700	-	3	3
TCJY476M020#0070E TCJD686M020#0055E	Y D	47 68	20 20	105 105	94 136	6	70 55	1600 2000	1100 1400	700 900	_	3	3
TCJE686M020#0045E	E	68	20	105	136	6	45	2400	1700	1100	_	2	3
TCJY686M020#0050E	Y	68	20	105	136	6	50	1900	1300	900	-	2	3
TCJD107M020#0055E	Ď	100	20	105	200	6	55	2000	1400	900	_	2	3
TCJE107M020#0045E	Е	100	20	105	200	6	45	2400	1700	1100	_	3	3
TCJY107M020#0055E	Υ	100	20	105	200	6	55	1800	1300	800	-	2	3
TCJU227M020R0070E	U	220	20	105	440	12	70	2300	1600	1000	_	2	3
TO ID10EM00E #0500E		1.0	٥٢	105		@ 85°C	F00	400	200	1 000		1 0 1	
TCJP105M025#0500E TCJB475M025#0100E	P B	1.0 4.7	25	105 105	2.5 11.8	6	500 100	400 1100	300 800	200 500	_	3	3
TCJB475M025#0100E TCJB475M025#0150E	В	4.7	25 25	105	11.8	6	150	900	600	400	_	3	3
TCJB475M025#0150E	A	6.8	25	105	17	6	150	800	600	400	_	3	3
TCJB685M025#0090E	В	6.8	25	105	17	6	90	1200	800	500	_	2	3
TCJB685M025#0150E	В	6.8	25	105	17	6	150	900	600	400	_	3	3
TCJT685M025#0100E	Т	6.8	25	105	17	6	100	1000	700	500	_	3	3
TCJT685M025#0150E	Т	6.8	25	105	17	6	150	800	600	400	_	3	3
TCJA106M025#0150E	Α	10	25	105	25	6	150	800	600	400	_	3	3
TCJB106M025#0090E	В	10	25	105	25	6	90	1200	800	500	_	2	3
TCJB106M025#0100E	В	10	25	105	25	6	100	1100	800	500	_	2	3
TCJB106M025#0150E	B	10 15	25 25	105 105	25 37.5	6	150 100	900	600 800	400 500	_	2	3
TCJB156M025#0100E TCJB156M025#0150E	В	15	25	105	37.5	6	150	900	600	400	_	2	3
TCJY156M025#0090E	Y	15	25	105	37.5	6	90	1400	1000	600	_	2	3
TCJB226M025#0100E	В	22	25	105	55	6	100	1100	800	500	_	2	3
TCJB226M025#0150E	В	22	25	105	55	6	150	900	600	400	_	2	3
TCJC226M025#0100E	С	22	25	105	55	6	100	1300	900	600	_	3	3
TCJD226M025#0060E	D	22	25	105	55	6	60	1900	1300	900	-	2	3
TCJD226M025#0100E	D	22	25	105	55	6	100	1500	1100	700	-	2	3
TCJY226M025#0070E	Y	22	25	105	55	6	70	1600	1100	700	_	3	3
TCJD336M025#0060E TCJD336M025#0100E	D	33 33	25 25	105 105	82.5 82.5	6	60 100	1900 1500	1300	900 700	_	2	3
TCJX336M025#0070E	X	33	25	105	82.5	6	70	1600	1100	700	_	2	3
TCJX336M025#0100E	X	33	25	105	82.5	6	100	1300	900	600	_	2	3
TCJY336M025#0060E	Y	33	25	105	82.5	6	60	1800	1300	800	_	2	3
TCJY336M025#0070E	Υ	33	25	105	82.5	6	70	1600	1100	700	_	2	3
TCJY336M025#0100E	Υ	33	25	105	82.5	6	100	1400	1000	600	_	2	3
TCJD476M025#0060E	D	47	25	105	117.5	6	60	1900	1300	900	_	3	3
TCJD476M025#0100E	D	47	25	105	117.5	6	100	1500	1100	700	-	3	3
TCJE476M025#0050E	E	47	25	105	117.5	6	50	2200	1500	1000	_	3	3
TCJY476M025#0100E TCJD686M025#0070E	Y D	47 68	25 25	105 105	117.5 170	6	100 70	1400	1000	600 800	_	3 2	3
TCJE686M025#0070E	E	68	25	105	170	6	50	2200	1500	1000	_	3	3
TCJY686M025#0100E	Y	68	25	105	170	6	100	1400	1000	600	_	3	3
TCJD107M025#0055E		100	25	105	250	6	55	2000	1400	900	_	2	3
TCJD107M025#0070E	D	100	25	105	250	6	70	1800	1300	800	_	2	3
TCJE107M025#0080E	Е	100	25	105	250	6	80	1800	1300	800	_	2	3
TCJU107M025R0070E		100	25	125	250	12	70	2300	1600	1000	600	1	3
TCJU157M025R0070E	U	150	25	105	375	12	70	2300	1600	1000	_	2	3
TCJB155M035#0200E	В	1.5	35	105	35 Vol t 5.3	@ 85°C	200	800	600	400	_	2	3
TCJB155M035#0200E		2.2	35	105	7.7	6	200	800	600	400	_	3	3
TCJB335M035#0200E		3.3	35	105	11.6	6	200	800	600	400	_	3	3
TCJB475M035#0200E		4.7	35	105	16.5	6	200	800	600	400	_	3	3
TCJC475M035#0200E		4.7	35	105	16.5	6	200	900	600	400	_	3	3
TCJC685M035#0200E		6.8	35	105	23.8	6	200	900	600	400	-	3	3
TCJB106M035#0200E	В	10	35	105	35	6	200	800	600	400	-	2	3
TCJC106M035#0200E	С	10	35	105	35	6	200	900	600	400	-	3	3
TCJY106M035#0070E		10	35	105	35	6	70	1600	1100	700	-	2	3
TCJB156M035#0200E		15	35	105	52.5	6	200	800	600	400	_	2	3
TCJC156M035#0200E		15	35	105	52.5	6	200	900	600	400	_	3	3
TCJD156M035#0070E		15	35	105	52.5	6	70	1800	1300	800 700	_	3	3
TCJD156M035#0100E TCJY156M035#0070E	Y	15 15	35 35	105 105	52.5 52.5	6	100 70	1500 1600	1100	700	_	3	3
TCJY156M035#0100E	Y	15	35	105	52.5	6	100	1400	1000	600	_	3	3
TCJD226M035#0070E	D	22	35	105	77	6	70	1800	1300	800	_	2	3
									. 500				



Conductive Polymer Solid Electrolytic Chip Capacitors

RATINGS & PART NUMBER REFERENCE

AVX	Case	Capacitance	Rated	Maximum Operating	DCL	DF	ESR Max.	10	0kHz RMS	Current (m	nA)	Product	MO
Part No.	Size	· (μF)	Voltage (V)	Temperature (°C)	Max. (μA)	Max. (%)	@ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Category	MSL
TCJD226M035#0100E	D	22	35	105	77	6	100	1500	1100	700	_	2	3
TCJY226M035#0150E	Υ	22	35	105	77	6	150	1100	800	500	_	3	3
TCJD336M035#0070E	D	33	35	105	115.5	6	70	1800	1300	800	_	2	3
TCJD336M035#0100E	D	33	35	105	115.5	6	100	1500	1100	700	_	2	3
TCJE336M035#0055E	Е	33	35	105	115.5	6	55	2100	1500	900	_	3	3
TCJE336M035#0070E	Е	33	35	105	115.5	6	70	1900	1300	900	_	3	3
CJU336M035R0070E	U	33	35	125	115.5	12	70	2300	1600	1000	600	1	3
TCJY336M035#0100E	Υ	33	35	105	115.5	6	100	1400	1000	600	_	3	3
TCJE476M035#0055E	Е	47	35	105	164.5	6	55	2100	1500	900	_	2	3
TCJU476M035R0070E	IJ	47	35	125	164.5	12	70	2300	1600	1000	600	1	3
TCJY476M035#0100E	Y	47	35	105	164.5	6	100	1400	1000	600	-	3	3
10011101010001101002	•	.,	- 66	100		@ 85°C	100	1 100	1000	_ 000			
CJB684M050#0400E	В	0.68	50	105	3.4	6	400	600	400	300	_	3	3
TCJB105M050#0300E	В	1.0	50	105	5	6	300	600	400	300	_	3	3
TCJB155M050#0300E	В	1.5	50	105	7.5	6	300	600	400	300	_	3	3
TCJC155M050#0300E	С	1.5	50	105	7.5	6	300	800	600	400	_	3	3
TCJC225M050#0300E	C	2.2	50	105	11	6	300	800	600	400	_	3	3
TCJC335M050#0200E	C	3.3	50	105	16.5	8	200	900	600	400	_	3	3
TCJC475M050#0200E	Č	4.7	50	105	23.5	8	200	900	600	400	_	3	3
TCJX475M050#0250E	X	4.7	50	105	23.5	6	250	800	600	400	_	2	5
TCJY475M050#0250E	Y	4.7	50	105	23.5	6	250	900	600	400	_	2	5
TCJC685M050#0200E	C	6.8	50	105	34	8	200	900	600	400		3	3
TCJD685M050#0200E	D	6.8	50	105	34	10	120	1400	1000	600	_	3	3
TCJD66510050#0120E	D	10	50	105	50	10	90	1600	1100	700	_	3	3
	D	10	50	105	50	10	120	1400	1000	600	_	3	3
TCJD106M050#0120E TCJE106M050#0070E	E	10	50	105	50	6	70	1900	1300	900	_	3	3
	E	10	50	105	50	6	100			700	_	3	3
TCJE106M050#0100E			50				70	1600	1100				
TCJE156M050#0070E	E	15		105	75	6		1900	1300	900	_	3	3
TCJE156M050#0100E	E	15	50	105	75 CO Val	6 @ 85°C	100	1600	1100	700	_	3	3
TCJB474M063#0400E	В	0.47	63	105	3	8	400	600	400	300	I –	3	3
TCJB684M063#0300E TCJB105M063#0300E	B B	0.68 1.0	63 63	105 105	4.3 6.3	<u>8</u> 8	300	600	400	300	_	3	3
	C									400			
FCJC105M063#0300E		1.0	63	105	6.3	6	300	800	600	400	_	3	3
FCJC155M063#0300E	C	1.5	63	105	9.5	6	300	800	600		_	3	3
FCJC225M063#0200E	С	2.2	63	105	13.9	6	200	900	600	400	_	3	3
FCJC335M063#0200E	С	3.3	63	105	20.8	6	200	900	600	400	_	3	3
FCJC475M063#0200E	С	4.7	63	105	29.6	6	200	900	600	400	_	3	3
FCJD475M063#0120E	D	4.7	63	105	29.6	6	120	1400	1000	600	-	3	3
FCJD685M063#0120E	D	6.8	63	105	42.8	6	120	1400	1000	600	_	3	3
TCJE685M063#0100E	E	6.8	63	105	42.8	6	100	1600	1100	700	_	3	3
TCJE685M063#0150E	E	6.8	63	105	42.8	6	150	1300	900	600	_	3	3
TCJE106M063#0100E	E	10	63	105	63	6	100	1600	1100	700	-	3	3
TCJE106M063#0150E	Е	10	63	105	63	6	150	1300	900	600	_	3	3
						@ 85°C							
TCJD475M075#0150E	D	4.7	75	105	35.3	6	150	1200	800	500	_	3	3
FCJD685M075#0120E	D	6.8	75	105	51	6	120	1400	1000	600	_	3	3
FO ID 4751 4400 "0055			100	1.46= '		t @ 85°C	0.50	000	000	100			
TCJD475M100#0250E	D	4.7	100	105	47	8	250	900	600	400	_	4	3
TO IDOOEN HOSENS		0.0	105	105		t @ 85°C	050	000	000	100			
CJD335M125#0250E	D	3.3	125	105	41.2	8	250	900	600	400	_	4	3

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

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5RMS

with DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

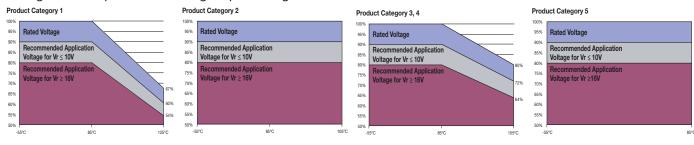
ESR allowed to move up to 1.25 times catalog limit post mounting.

For typical weight and composition see page 274.

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

RECOMMENDED DERATING FACTOR

Voltage and temperature derating as percentage of Vr





Conductive Polymer Solid Electrolytic Chip Capacitors

PRODUCT CATEGORY 1 (TEMPERATURE RANGE -55°C TO +125°C)

TEST		Condition				Cha	aracteris	stics				
		rated voltage (Ur) at 85°C and / or 2/3 rate ge (Ur) at 125°C for 2000 hours through a clance of ≤0.1Ω/V. Stabilize at room temper 2 hours before measuring. at 125°C, no voltage applied, for 2000 hours at room temperature for 1-2 hours before at 65°C and 95% relative humidity for 5, with no applied voltage. Stabilize at recrature and humidity for 1-2 hours before at the resture and humidity for 1-2 hours before at 15 and 15		Visual examination	n	no vis	sible dama	age				
	1 +20 15 2 -55 15 3 +20 15 4 +85 15 5 +125 15	d / or 2/3 rated	DCL		1.25 >	c initial lim	nit					
Endurance	voltage (U	Visual examination no visible damage										
				DF		1.25 x initial limit within +10/-20% of initial value 1.5 x initial limit 2 x initial limit no visible damage 2 x initial limit within +10/-20% of initial value 1.5 x initial limit 2 x initial limit no visible damage 3 x initial limit within +35/-5% of initial value 1.5 x initial limit 2 x initial limit 2 x initial limit 2 x initial limit 1.5 x initial limit 2 x initial limit 1.5 x initi						
	woitage (Ur) at 125°C for 2000 hours through a compedance of ≤0.1Ω/V. Stabilize at room temper for 1-2 hours before measuring. Store at 125°C, no voltage applied, for 2000 hous stabilize at room temperature for 1-2 hours before measuring. Store at 65°C and 95% relative humidity for 5 hours, with no applied voltage. Stabilize at rotemperature and humidity for 1-2 hours before measuring. Step Temperature°C Duration for 1 hours before measuring. Step Temperature°C Duration for 1 hours before measuring. Step 1 hours for 1 hours before measuring. Step 2 hours for 1 hours before measuring. Step 2 hours for 1 hours before measuring. Step 2 hours for 1 hours before measuring. Step 3 hours for 1 hours before measuring. Step 4 hours for 1 hours before measuring. Step 1 hours for 1 hours before measuring. Step 1 hours for 1 hours before measuring. Step 2 hours for 1 hours before measuring. Step 1 hours for 1 hours before measuring. Step 2 hours for 1 hours before measuring. Step 3 hours for 2 hours before measuring. Step 4 hours for 2 hours before measuring.		ESR		2 x in	itial limit						
				Visual examination	n	no vis	sible dama	age				
	Store at 1	25°C. no voltage applied.	for 2000 hours.	DCL		2 x in	itial limit					
Storage Life	Stabilize at room temperature for 1-2 hours bef measuring. Store at 65°C and 95% relative humidity fo hours, with no applied voltage. Stabilize at temperature and humidity for 1-2 hours before measuring. Step Temperature°C Duration 1 +20 11 +20 11 11 11 11 11 11 11 11 11 11 11 11 11			ΔC/C		within	+10/-209	% of initi	al value			
	Stabilize at room temperature for 1-2 hours beformeasuring. Store at 65°C and 95% relative humidity fo 5 hours, with no applied voltage. Stabilize at rotemperature and humidity for 1-2 hours beformeasuring. Step Temperature°C Duration 1 +20 15 2 -55 15 3 +20 15 4 +85 15 5 +125 15 6 +20 15 Apply 1.3x 2/3x rated voltage (Ur) at 125°C 1000 cycles of duration 6 min (30 sec charge / 5 min 30 sec discharge) through a charge / 5 min 30 sec discharge)			DF		1.5 x	initial limi	t				
	Store at 125°C, no voltage applied, for 2000 hour Stabilize at room temperature for 1-2 hours before measuring. Store at 65°C and 95% relative humidity fo 50 hours, with no applied voltage. Stabilize at rotemperature and humidity for 1-2 hours before measuring. Step Temperature°C Duration 15			ESR		2 x in	itial limit					
				Visual examination	n	no vis	sible dama	age				
				DCL		3 x in	itial limit					
Humidity	voltage (Ur) at 125°C for 2000 hours through a impedance of ≤0.1Ω/V. Stabilize at room temp for 1-2 hours before measuring. Store at 125°C, no voltage applied, for 2000 h. Stabilize at room temperature for 1-2 hours be measuring. Store at 65°C and 95% relative humidity for hours, with no applied voltage. Stabilize at temperature and humidity for 1-2 hours be measuring. Step Temperature°C Duration 1		ΔC/C		within	+35/-5%	of initia	l value				
			- riodis belore	DF		no visible damage 1.25 x initial limit within +10/-20% of initial value 1.5 x initial limit 2 x initial limit no visible damage 2 x initial limit within +10/-20% of initial value 1.5 x initial limit x initial limit x x initial limit 2 x initial limit 1.5 x initial limit 2 x initial limit 1.5 x initial limit 2 x initial limit 1.5 x initial limit 2 x initial limit x ino x initial limit x ino x initial limit x ino visible damage initial limit x initial limit x ino visible damage initial limit x initial limit						
				ESR		2 x in	itial limit		+85°C			
	Step	Temperature°C			+	-20°C	-55°C	+20°C	+85°C	alue S5°C	+20°C	
Temperature	2	-55	15	DCL		IL*	n/a	IL*	10 x IL*	12.5 x IL*	IL*	
Stability	4			ΔC/C		n/a +0/-20% ±5% +20/-0% +30/-0% ±5						
				DF		IL*	1.5 x IL*	IL*	1.5 x IL*	value +85°C	IL*	
				Visual examination	n	no vis	ible dama	age				
Surge	1000 cyc	les of duration 6 min (30 sec charge,	DCL		initial	limit		of initial value of initial value of initial value f initial value 20°C			
Voltage	5 min 30	sec discharge) throug	h a charge /	ΔC/C		within	+10/-209	% of initi				
voitage	uiscriarge	e resistance of 100012		DF		1.25 x	hin +35/-5% of initial value x initial limit initial limit C -55°C +20°C +85°C +125°C +20° n/a					
				Visual examination	n	no vis	sible dama	age				
Mechanical				DCL		initial	limit					
Shock	MIL-STD	-202, Method 213, Co	ondition C	ΔC/C		within	±5% of i	imit nage				
SHOCK				DF		initial	limit					
				ESR		initial limit						
				Visual examination	n	no vis	sible dama	age				
	Wileyaki ara		DCL		initial	limit						
Vibration	MIL-STD	-202, Method 204, Co	ondition D	ΔC/C		within	±5% of i	nitial val	ue			
				DF		initial	limit					
				ESR								

*Initial Limit

Initial measurement max. 1hr after the removal from dry pack or after pretreatment at 85°C for 24 hours.



Conductive Polymer Solid Electrolytic Chip Capacitors

PRODUCT CATEGORY 2, 3, 4 (TEMPERATURE RANGE -55°C TO +105°C)

TEST		Condition			Characteristics			
	Apply rate	ed voltage (Ur) at 85°C	for 2000 hours	Visual examination	no visible damage			
		circuit impedance of \leq RIES). And / or apply ra		DCL	1.25 x initial limit			
Endurance	(CATEGO	RY 2) or 0.8x rated vol	tage (CATEGORY	ΔC/C	within +10/-20% of initial value			
	3, 4) at 10	05°C for 2000 hours thr	ough a circuit	DF	1.5 x initial limit			
		ce of ≤0.1Ω/V Always st ure for 1-2 hours before		ESR	2 x initial limit			
	<u> </u>							
				Visual examination	no visible damage 1.25 x initial limit			
		105°C, no voltage appli		DCL (V _R ≤ 75V)	2 x initial limit			
Storage Life		abilize at room tempera fore measuring.	ature for 1-2	DCL ($V_R > 75V$) $\Delta C/C$	within +10/-20% of initial value			
	Hours bei	ore measuring.		DF	1.5 x initial limit			
				ESR	2 x initial limit			
				Visual examination	no visible damage			
		65°C and 95% relative h	,	DCL	3 x initial limit			
Humidity		th no applied voltage. S		ΔC/C	within +35/-5% of initial value			
	measuring	ure and humidity for 1-2	2 nours before	DF	1.5 x initial limit			
		9.	ESR 2 x initial limit					
	Step	Temperature°C		-	+20°C -55°C +20°C +85°C +105°C +20°C			
Tomporoturo	2	+20 -55	15 15	DCL				
Temperature	3	+20	15					
Stability	5	+85 +105	15 15	ΔC/C	n/a +0/-20% ±5% +20/-0% +30/-0% ±5%			
	6	+20	15	DF				
		rated voltage (Ur) at 105 1.3x 0.8x rated voltage		Visual examination	no visible damage			
Surge		RY 3, 4 for 1000 cycles of		DCL	initial limit			
Voltage	(30 sec ch	arge, 5 min 30 sec discl	harge) through a	ΔC/C	within +10/-20% of initial value			
	charge / d	lischarge resistance of 1	000Ω	DF	1.25 x initial limit			
				Visual examination	no visible damage			
Mechanical				DCL	initial limit			
Shock	MII -STD-202 Method 213 Condition C			ΔC/C	within ±5% of initial value			
				DF	initial limit			
				ESR	initial limit			
				Visual examination	no visible damage			
\(\(\) \(NAU OTD	000 14 11 1004 0		DCL	initial limit			
Vibration	MIL-SID	-202, Method 204, Co	naition D	ΔC/C	within ±5% of initial value			
				DF	initial limit			
				ESR	initial limit			

*Initial Limit

Initial measurement max. 1hr after the removal from dry pack or after pretreatment at 85°C for 24 hours.



Conductive Polymer Solid Electrolytic Chip Capacitors

PRODUCT CATEGORY 5 (TEMPERATURE RANGE -55°C TO +85°C)

TEST		Condition		Characteristics									
				Visual examination	no visib	le damage							
	Apply rate	ed voltage (Ur) at 85°C fo	r 2000 hours	DCL	1.25 x ir	nitial limit							
Endurance	through a	circuit impedance of ≤ 0 .	1Ω/V. Stabilize at	ΔC/C	within +	10/-20% o	f initial va	lue					
	room tem	perature for 1-2 hours be	efore measuring.	DF		tial limit							
				ESR		2 x initial limit							
				Visual examination		no visible damage							
	Store at 8	5°C, no voltage applied,	for 2000 hours.	DCL		nitial limit							
Storage Life		at room temperature for 1	-2 hours before	ΔC/C	_	within +10/-20% of initial value							
	measuring).		DF	-	1.5 x initial limit							
				ESR	2 x initia								
				Visual examination		le damage							
		65°C and 95% relative h		DCL	5 x initia								
Humidity		th no applied voltage. Sure and humidity for 1-2		ΔC/C			initial valu	ie					
	measurin			DF		1.5 x initial limit							
	0.			ESR	_	2 x initial limit							
	Step 1	Temperature°C +20	Duration(min) 15		+20°C	-55°C	+20°C	+85°C	+20°C				
Temperature	2	-55	15	DCL	IL*	n/a	IL*	10 x IL*	IL*				
Stability	3 4	+20 +85	15 15	ΔC/C	n/a	+0/-20%	±5%	nitial value +20°C	±5%				
,	5	+20	15	DF	IL*	1.5 x IL*	IL*		IL*				
0	Apply 1.2	x rated voltage (Ur) at 8	ESC for	Visual examination	no visib	no visible damage							
Surge	1000 cyc	les of duration 6 min (30	sec charge,	DCL	initial lin	nit							
Voltage		sec discharge) through resistance of 1000Ω	a charge /	ΔC/C	within +	10/-20% o	f initial va	lue					
	discriarge	resistance of 100012		DF	1.25 x ir	nitial limit							
				Visual examination	no visib	le damage							
Mechanical				DCL	initial lin	nit							
	MIL-STD	0-202, Method 213, Co	ndition C	ΔC/C	within ±	5% of initia	al value						
Shock				DF	initial lin	nit							
				ESR	initial lin	nit							
				Visual examination	no visib	le damage							
				DCL	initial lin	nit							
Vibration	MIL-STE	0-202, Method 204, Co	ndition D	ΔC/C	within ±	5% of initia	al value						
				DF	initial lin	nit							
				ESR	initial lin	nit							

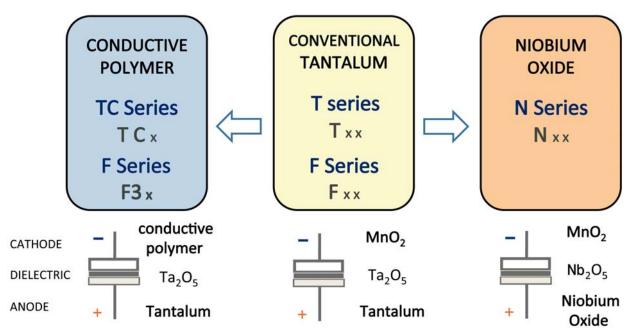
*Initial Limit

Initial measurement max. 1hr after the removal from dry pack or after pretreatment at 85°C for 24 hours.

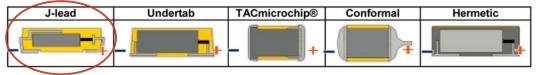


Conductive Polymer Solid Electrolytic Chip Capacitors

AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



Five Capacitor Construction Styles



SERIES LINE UP: CONDUCTIVE POLYMER

