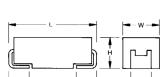
Conductive Polymer Solid Electrolytic Chip Capacitors

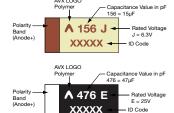


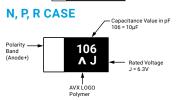




MARKING

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





FEATURES

- Conductive Polymer Electrode
- Benign Failure Mode Under Recommended Use Conditions
- Lower ESR
- 3x Reflow 260°C Compatible
- 100% Surge Current Tested
- CV Range: 0.47-470µF / 2.5-125V
- 18 Case Sizes Available

APPLICATIONS

Smart Phone, Tablets, Notebook, LCD TV, Power Supplies





Elektra Award 2010

RoHS

CASE DIMENSIONS:

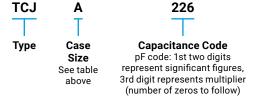
millimeters (inches)

	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 (0.122)	1.30 (0.051)	4.40 (0.173)
	W	2312	6032-15	6.00 (0.236)	3.20 (0.126)	1.50 (0.059) max	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
	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)
Γ	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)

W₁ dimension applies to the termination width for A dimensional area only.

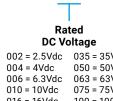
004

HOW TO ORDER



Τ̈́
Tolerance M = ±20%
IVI - ±20%

М



DC Vo	ltage
002 = 2.5Vdc	035 = 35Vdc
004 = 4Vdc	050 = 50Vdc
006 = 6.3Vdc	063 = 63Vdc
010 = 10Vdc	075 = 75Vdc
016 = 16Vdc	100 = 100Vdc
020 = 20Vdc	125 = 125Vdc
025 = 25Vdc	
n	

R **Packaging** R = Pure Tin 7" Reel

S = Pure Tin 13" Reel

0300 ESR in mΩ

Additional Character E = Black resin

Ε

Part Numbers already changed to an "E" suffix will continue to be supplied with only black resin Those Part Numbers currently produced with gold resin will eventually change to black before July, 2020.

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

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.







CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Ca	ıp				R	ated Voltage DC	(V _R) to 85°	C						
μF	Code	2.5V (e)	4V (G)	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)	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) B(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(90,150)	B(150)	B(100,150) Y(90)	B(200) C(200) D(70,100) Y(70,100)	D(150) E(70,100)	E(150)			
22	226		A(300)	A(300), B(70), K(400) N(500),R(500) S(400),T(150)	B(70,300) T(70,150)	A(300) B(70,150)	B(90,150) X(100) Y(70)	B(100,150) C(100) D(60,100) X(100), Y(70)	D(70,100) Y(150)	D(90), E(75), E(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)	X(100) 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(55,70) K(150,200,400) P(500),R(500) T(55,70,80,120)	B(70) C(100) H(100)	D(45,70), H(150) 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(55,100), 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) C(70,100) T(70,200), W(70)	D(18,25,45,55,80) Y(18,25,45,55)	D(50) E(40) Y(50)	C(70) 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)	C(70) D(40,50,70) E(40) Y(40,50,70)		U(70)						
220	227	B(35,45,70)	B(35,45,60,70) D(12,15,25,40) Y(15,25,40)	B(70,200) D(12,15,25,35,40,50) H(170) Y(15,18,25,35,40,50)	D(12,15,25,40,50) Y(15,25,40,50)	D(35,50) E(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(35, 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(35,50,100)		5(100)								

 $\label{eq:Released ratings} \textit{Released ratings}, \textit{(ESR ratings in mOhms in parentheses)}$

Engineering samples - please contact AVX

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



			Rated	Maximum	DCL	DF	ESR	10	0kHz RMS	Current (n	nA)		
AVX Part No.	Case Size	Capacitance (μF)	Voltage (V)	Operating Temperature (°C)	Max. (μA)	Max. (%)	Max. @ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Product Category	MSL
ГСЈА686M002#0250E	A	68	2.5	105	2.5 Vol	t @ 85°C	250	600	400	300	_	3	3
TCJA107M002#0200E	A	100	2.5	105	25	6	200	700	500	300	-	3	3
ΓCJB107M002#0070E	В	100	2.5	125	25	6	70	1300	900	600	300	1	3
ГСЈВ157M002#0070E	В	150	2.5	105	37.5	6	70	1300	900	600	-	3	3
ГСJB227M002#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
CJB227M002#0070E	В	220	2.5	105	55	8	70	1300	900	600	-	3	3
ГСЈВ337M002#0035E ГСЈВ337M002#0045E	B B	330 330	2.5 2.5	105 105	82.5 82.5	8	35 45	1900 1700	1300 1200	900 800	_ _	3	3
TCJB337M002#0043E	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	Y	330	2.5	105	82.5	6	40	2200	1500	1000	-	3	3
ΓCJD477M002#0012E	D	470	2.5	105	117.5	6	12	4300	3000	1900	-	2	3
ΓCJD477M002#0015E	D	470	2.5	105	117.5	6	15	3900	2700	1800	-	2	3
ГСJD477M002#0025E	D	470	2.5	105	117.5	6	25	3000	2100	1400	-	2	3
CJD477M002#0040E	D	470	2.5	105	117.5	6	40	2400	1700	1100	-	3	3
CJD477M002#0050E	D	470	2.5	105	117.5	6	50	2100	1500	900	_	3	3
ГСЈY477M002#0015E ГСЈY477M002#0025E	Y	470 470	2.5 2.5	85 105	117.5 117.5	6	15 25	3500 2700	2500 1900	1200	_	5 3	3
TCJY477M002#0025E	Y	470	2.5	105	117.5	6	40	2200	1500	1000	_	3	3
TCJY477M002#0040E	Y	470	2.5	105	117.5	6	50	1900	1300	900	_	3	3
	<u> </u>	.,,	2.0			@ 85°C	1 00	1200		700			
ГСЈА156M004#0300E	Α	15	4	125	6	6	300	600	400	300	200	1	3
ГСJA226M004#0300E	Α	22	4	125	8.8	6	300	600	400	300	200	1	3
ГСЈА336M004#0300E	Α	33	4	125	13.2	6	300	600	400	300	200	1	3
ГСЈА476M004#0200E	Α	47	4	105	18.8	6	200	700	500	300	_	3	3
TCJT476M004#0080E	T	47	4	105	18.8	8	80	1100	800	500	-	3	3
CJA686M004#0250E	A	68	4	105	27.2	6	250	600	400	300	-	3	3
TCJB686M004#0070E	B	68	<u>4</u> 4	125	27.2	6	70	1300	900	600	300	1	3
ГСЈТ686M004#0080E ГСЈА107M004#0200E	T A	68 100	4	105 105	27.2 40	8	80 200	1100 700	800 500	500 300	_	3	3
TCJB107M004#0200E	B	100	4	105	40	8	40	1800	1300	800	_	3	3
TCJB107M004#0040E	В	100	4	125	40	8	70	1300	900	600	300	0	3
TCJG107M004#0300E	G	100	4	105	40	10	300	600	400	300	-	3	3
TCJT107M004#0070E	T	100	4	105	40	8	70	1200	800	500	-	3	3
TCJT107M004#0150E	Т	100	4	105	40	8	150	800	600	400	-	3	3
TCJB157M004#0070E	В	150	4	105	60	6	70	1300	900	600	-	3	3
ГСJD157M004#0015E	D	150	4	105	60	6	15	3900	2700	1800	-	2	3
TCJY157M004#0015E	Υ	150	4	105	60	6	15	3500	2500	1600	-	2	3
TCJY157M004#0025E	Υ	150	4	105	60	6	25	2700	1900	1200	-	2	3
TCJY157M004#0045E	Y	150	4	105	60	6	45	2000	1400	900	-	3	3
FCJB227M004#0035E FCJB227M004#0045E	B B	220 220	4	105 105	88 88	10 10	35 45	1900 1700	1300 1200	900	_	3	3
TCJB227M004#0043E	В	220	4	105	88	10	60	1400	1000	600	_	3	3
TCJB227M004#0000E	В	220	4	105	88	10	70	1300	900	600	_	3	3
TCJD227M004#0070E	D	220	4	105	88	6	12	4300	3000	1900	_	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
ГСJD227M004#0040E	D	220	4	105	88	6	40	2400	1700	1100	-	2	3
TCJY227M004#0015E	Υ	220	4	105	88	6	15	3500	2500	1600	-	2	3
TCJY227M004#0025E	Υ	220	4	105	88	6	25	2700	1900	1200	-	2	3
TCJY227M004#0040E	Y	220	4	105	88	6	40	2200	1500	1000	-	3	3
FCJD337M004#0015E FCJD337M004#0025E	D	330	<u>4</u> 4	105	132	6	15	3900	2700	1800	_	2	3
TCJD337M004#0025E TCJD337M004#0040E	D D	330 330	4	105 105	132 132	6	25 40	3000 2400	2100 1700	1400 1100	_	3	3
TCJD337M004#0040E	D	330	4	105	132	6	50	2100	1500	900	_	3	3
TCJY337M004#0050E	Y	330	4	85	132	6	15	3500	2500	900	_	5	3
TCJY337M004#0015E	Y	330	4	105	132	6	25	2700	1900	1200	_	3	3
TCJY337M004#0040E	Y	330	4	105	132	6	40	2200	1500	1000	-	3	3
ГСЈY337M004#0050E	Y	330	4	105	132	6	50	1900	1300	900	-	3	3
ГСJD477M004#0010E	D	470	4	105	188	6	10	4700	3300	2100	-	2	3
ΓCJD477M004#0012E	D	470	4	105	188	6	12	4300	3000	1900	-	2	3
ГСJD477M004#0015E	D	470	4	105	188	6	15	3900	2700	1800	-	2	3
ΓCJD477M004#0025E	D	470	4	105	188	6	25	3000	2100	1400	-	2	3
	D	470	4	105	188	6	40	2400	1700	1100	-	2	3
ГСJD477M004#0040E								0400					
TCJD477M004#0040E TCJD477M004#0050E TCJY477M004#0015E	D Y	470 470	4 4	105 85	188 188	6	50 15	2100 3500	1500 2500	900	_	5	3

Conductive Polymer Solid Electrolytic Chip Capacitors



4104			Rated	Maximum	DCL	DF	ESR	10	0kHz RMS	Current (n	nA)		
AVX Part No.	Case Size	Capacitance (μF)	Voltage (V)	Operating Temperature (°C)	Max. (μA)	Max. (%)	Max. @ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Product Category	MSL
TCJY477M004#0040E	Υ	470	4	105	188	6	40	2200	1500	1000	-	3	3
TCJY477M004#0050E	Y	470	4	105	188	6 t @ 85°C	50	1900	1300	900	_	3	3
TCJA106M006#0300E	Α	10	6.3	125	6	6	300	600	400	300	200	1	3
TCJN106M006#0200E	N	10	6.3	105	6	6	200	600	400	300	_	3	3
TCJN106M006#0250E	N	10	6.3	105	6	6	250	600	400	300	-	3	3
TCJN106M006#0500E	N	10	6.3	105	6	6	500	400	300	200	-	3	3
TCJR106M006#0500E	R	10 15	6.3	105 125	<u>6</u> 9	6	500 300	400 600	300 400	200 300	200	3	3
TCJA156M006#0300E TCJA226M006#0300E	A	22	6.3 6.3	125	13.2	6	300	600	400	300	200	1	3
TCJB226M006#0070E	В	22	6.3	125	13.2	6	70	1300	900	600	300	0	3
TCJK226M006#0400E	K	22	6.3	105	13.2	8	400	500	400	200	-	3	3
TCJN226M006#0500E	N	22	6.3	105	13.2	10	500	400	300	200	-	3	3
TCJR226M006#0500E TCJS226M006#0400E	R	22	6.3 6.3	105 105	13.2 13.2	10	500 400	400 500	300 400	200	_	3	3
TCJT226M006#0400E	T	22	6.3	105	13.2	6	150	800	600	400	_	3	3
ГСJA336M006#0200E	A	33	6.3	105	19.8	6	200	700	500	300	-	3	3
TCJB336M006#0070E	В	33	6.3	125	19.8	6	70	1300	900	600	300	0	3
TCJB336M006#0200E	В	33	6.3	125	19.8	6	200	800	600	400	200	0	3
FCJT336M006#0150E FCJA476M006#0070E	T A	33 47	6.3 6.3	105 105	19.8 28.2	8	150 70	800 1200	600 800	400 500	_	3	3
CJA476M006#0070E	A	47	6.3	105	28.2	6	100	1000	700	500	_	3	3
TCJA476M006#0200E	A	47	6.3	105	28.2	6	200	700	500	300	-	3	3
TCJB476M006#0055E	В	47	6.3	105	28.2	6	55	1500	1100	700	-	2	3
TCJB476M006#0070E	В	47	6.3	125	28.2	6	70	1300	900	600	300	1	3
TCJK476M006#0150E TCJK476M006#0200E	K	47 47	6.3 6.3	105 105	28.2 28.2	6	150 200	800 700	600 500	400 300	_	3	3
CJK476M006#0200E	K	47	6.3	105	28.2	6	400	500	400	200	_	3	3
CJP476M006#0500E	P	47	6.3	105	28.2	10	500	400	300	200	-	3	3
CJR476M006#0500E	R	47	6.3	105	28.2	10	500	400	300	200	-	3	3
CJT476M006#0055E	T	47	6.3	105	28.2	8	55	1300	900	600	-	3	3
FCJT476M006#0070E FCJT476M006#0080E	T	47 47	6.3 6.3	105 105	28.2 28.2	8	70 80	1200 1100	800 800	500 500	_	3	3
CJT476M006#0080E	T	47	6.3	105	28.2	8	120	900	600	400	_	3	3
CJB686M006#0055E	В	68	6.3	125	40.8	8	55	1500	1100	700	400	1	3
TCJB686M006#0070E	В	68	6.3	125	40.8	8	70	1300	900	600	300	1	3
CJC686M006#0055E	С	68	6.3	125	40.8	6	55	1800	1300	800	500	1	3
FCJC686M006#0100E FCJH686M006#0100E	H	68 68	6.3 6.3	125 105	40.8 40.8	6	100	1300 1000	900 700	600 500	300	3	3
CJT686M006#0200E	T	68	6.3	105	40.8	8	200	700	500	300	_	3	3
CJW686M006#0070E	W	68	6.3	125	40.8	8	70	1400	1000	600	400	1	3
TCJA107M006#0100E	Α	100	6.3	105	60	10	100	1000	700	500	-	3	3
CJA107M006#0150E	A	100	6.3	105	60	10	150	800	600	400	-	3	3
CJB107M006#0040E CJB107M006#0045E	B	100	6.3 6.3	105 105	60 60	10	40 45	1800 1700	1300 1200	800	_	3	3
CJB107M006#0045E	В	100	6.3	105	60	10	55	1500	1100	700	_	3	3
CJB107M006#0070E	В	100	6.3	105	60	10	70	1300	900	600	-	3	3
CJC107M006#0070E	С	100	6.3	105	60	6	70	1600	1100	700	-	3	3
CJC107M006#0100E CJT107M006#0070E	C	100	6.3	105	60	6	100 70	1300	900	600 500	_	3	3
CJT107M006#0070E	T	100	6.3 6.3	105 105	60 60	10	200	700	800 500	300	_	3	3
CJW107M006#0200E	W	100	6.3	105	60	6	70	1400	1000	600	-	3	3
TCJB157M006#0025E	В	150	6.3	105	90	10	25	2200	1500	1000	-	3	3
CJB157M006#0035E	В	150	6.3	105	90	10	35	1900	1300	900	-	3	3
ГСЈВ157М006#0045E ГСЈВ157М006#0055E	B	150 150	6.3	105	90 90	10	45 55	1700	1200	800	_	3	3
TCJB157M006#0055E TCJB157M006#0070E	В	150	6.3 6.3	105 105	90	10	70	1500 1300	1100 900	700 600	_	3	3
CJD157M006#0070E	D	150	6.3	105	90	6	12	4300	3000	1900	_	2	3
ГСJD157M006#0015E	D	150	6.3	105	90	6	15	3900	2700	1800	-	2	3
CJD157M006#0025E	D	150	6.3	105	90	6	25	3000	2100	1400	-	2	3
CJD157M006#0040E	D	150	6.3	105	90	6	40	2400	1700	1100	_	2	3
TCJH157M006#0200E TCJW157M006#0040E	W	150 150	6.3 6.3	105 105	90 90	6	200 40	700 1800	500 1300	300 800	_	3	3
CJW157M006#0040E	W	150	6.3	105	90	6	70	1400	1000	600	-	3	3
TCJY157M006#0015E	Υ	150	6.3	105	90	6	15	3500	2500	1600	-	2	3
CJY157M006#0025E	Υ	150	6.3	105	90	6	25	2700	1900	1200	-	2	3
TCJY157M006#0040E	Y	150	6.3	105	90	6	40	2200	1500	1000	_	3	3
TCJB227M006#0070E TCJB227M006#0200E	B	220 220	6.3 6.3	105 105	132 132	10	70 200	1300 800	900 600	600 400	_	3	3
1 03DZZ/IVIUU0#UZUUE	1 0		0.3	100	132	1 10	1 200	1 000	000	400		၁	<u> </u>

Conductive Polymer Solid Electrolytic Chip Capacitors



			Rated	Maximum	DCL	DF	ESR	10	00kHz RMS	6 Current (n	nA)		
AVX Part No.	Case Size	Capacitance (µF)	Voltage (V)	Operating Temperature (°C)	Max. (μA)	Max. (%)	Max. @ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Product Category	MS
CJD227M006#0012E	D	220	6.3	105	132	6	12	4300	3000	1900	-	2	3
CJD227M006#0015E	D	220	6.3	105	132	6	15	3900	2700	1800	-	2	3
CJD227M006#0025E	D	220	6.3	105	132	6	25	3000	2100	1400	-	2	3
CJD227M006#0035E	D	220	6.3	105	132	6	35	2500	1800	1100	-	3	3
CJD227M006#0040E	D	220	6.3	105	132	6	40	2400	1700	1100	-	3	3
CJD227M006#0050E	D	220	6.3	105	132	6	50	2100	1500	900	-	3	3
CJH227M006#0170E	Н	220	6.3	105	132	10	170	800	600	400	-	3	3
CJY227M006#0015E	Y	220	6.3	85	132	6	15	3500	2500	- 1100	-	5	3
CJY227M006#0018E	Y	220	6.3	105	132	6	18	3200	2200	1400	-	3	3
CJY227M006#0025E	Y	220	6.3	105	132	6	25	2700	1900	1200	-	2	3
CJY227M006#0035E	Y	220	6.3	105	132	6	35	2300	1600	1000	-	2	3
CJY227M006#0040E	Y	220	6.3	105	132	6	40	2200	1500	1000	-	2	3
CJY227M006#0050E	Y	220	6.3	105	132	6	50	1900	1300	900	-	2	3
CJD337M006#0012E	D	330	6.3	105	198	6	12	4300	3000	1900	-	3	3
CJD337M006#0015E	D	330	6.3	105	198	6	15	3900	2700	1800	-	3	3
CJD337M006#0018E	D	330	6.3	105	198	6	18	3500	2500	1600	-	3	;
CJD337M006#0025E	D	330	6.3	105	198	6	25	3000	2100	1400	-	3	3
CJD337M006#0040E	D	330	6.3	105	198	6	40	2400	1700	1100	-	2	3
CJD337M006#0050E	D	330	6.3	105	198	6	50	2100	1500	900	-	2	
CJY337M006#0015E	Y	330	6.3	85	198	12	15	3500	2500	-	-	5	
CJY337M006#0025E	Y	330	6.3	105	198	12	25	2700	1900	1200	-	3	;
CJY337M006#0040E	Υ	330	6.3	105	198	12	40	2200	1500	1000	-	3	
CJY337M006#0050E	Υ	330	6.3	105	198	12	50	1900	1300	900	-	3	;
CJD477M006#0025E	D	470	6.3	105	282	6	25	3000	2100	1400	-	2	:
CJX477M006#0035E	X	470	6.3	105	282	6	35	2200	1500	1000	-	3	;
CJX477M006#0050E	X	470	6.3	105	282	6	50	1900	1300	900	-	3	
CJX477M006#0100E	X	470	6.3	105	282	6	100	1300	900	600	_	3	,
	T					@ 85°C				T	1		
CJK475M010#0300E	K	4.7	10	105	4.7	6	300	500	400	200	-	3	
CJK475M010#0500E	K	4.7	10	105	4.7	6	500	400	300	200	-	3	;
CJR475M010#0500E	R	4.7	10	105	4.7	6	500	400	300	200	-	3	
CJA106M010#0200E	Α	10	10	125	10	6	200	700	500	300	200	1	:
CJA106M010#0300E	Α	10	10	125	10	6	300	600	400	300	200	1	
CJA156M010#0200E	Α	15	10	125	15	6	200	700	500	300	200	1	:
CJB226M010#0070E	В	22	10	125	22	6	70	1300	900	600	300	0	
CJB226M010#0300E	В	22	10	125	22	6	300	600	400	300	200	0	
CJT226M010#0070E	T	22	10	105	22	6	70	1200	800	500	-	3	:
CJT226M010#0150E	Т	22	10	105	22	6	150	800	600	400	-	3	:
CJB336M010#0070E	В	33	10	125	33	6	70	1300	900	600	300	0	
CJB336M010#0200E	В	33	10	125	33	6	200	800	600	400	200	0	:
CJC336M010#0100E	С	33	10	125	33	6	100	1300	900	600	300	1	
CJT336M010#0070E	T	33	10	105	33	6	70	1200	800	500	-	3	
CJT336M010#0150E	T	33	10	105	33	6	150	800	600	400	-	3	:
CJB476M010#0070E	В	47	10	105	47	6	70	1300	900	600	-	3	
CJC476M010#0100E	С	47	10	125	47	6	100	1300	900	600	300	1	
CJH476M010#0100E	Н	47	10	105	47	6	100	1000	700	500	-	3	
CJD686M010#0045E	D	68	10	125	68	6	45	2200	1500	1000	600	0	
CJD686M010#0055E	D	68	10	125	68	6	55	2000	1400	900	500	0	
CJY686M010#0045E	Υ	68	10	105	68	6	45	2000	1400	900	-	3	
CJY686M010#0055E	Υ	68	10	105	68	6	55	1800	1300	800	-	3	
CJD107M010#0018E	D	100	10	105	100	6	18	3500	2500	1600	-	2	
CJD107M010#0025E	D	100	10	105	100	6	25	3000	2100	1400	-	2	
CJD107M010#0045E	D	100	10	105	100	6	45	2200	1500	1000	-	3	
CJD107M010#0055E	D	100	10	105	100	6	55	2000	1400	900	-	3	
CJD107M010#0080E	D	100	10	105	100	6	80	1700	1200	800	-	3	
CJY107M010#0018E	Y	100	10	105	100	6	18	3200	2200	1400	-	2	
CJY107M010#0025E	Y	100	10	105	100	6	25	2700	1900	1200	-	2	
CJY107M010#0045E	Y	100	10	105	100	6	45	2000	1400	900	-	3	
CJY107M010#0055E	Y	100	10	105	100	6	55	1800	1300	800	-	3	
CJD157M010#0025E	D	150	10	105	150	6	25	3000	2100	1400	-	3	
CJD157M010#0040E	D	150	10	105	150	6	40	2400	1700	1100	-	3	
CJD157M010#0045E	D	150	10	105	150	6	45	2200	1500	1000	-	3	:
CJD157M010#0055E	D	150	10	105	150	6	55	2000	1400	900	-	3	
CJY157M010#0025E	Y	150	10	105	150	6	25	2700	1900	1200	-	3	:
CJY157M010#0040E	Υ	150	10	105	150	6	40	2200	1500	1000	-	3	;
CJY157M010#0045E	Υ	150	10	105	150	6	45	2000	1400	900	-	3	:
CJY157M010#0055E	Υ	150	10	105	150	6	55	1800	1300	800	-	3	:
CJD227M010#0012E	D	220	10	105	220	6	12	4300	3000	1900	-	3	;
CJD227M010#0015E	D	220	10	105	220	6	15	3900	2700	1800	-	3	:
CJD227M010#0025E	D	220	10	105	220	6	25	3000	2100	1400	_	3	:

Conductive Polymer Solid Electrolytic Chip Capacitors



AVOV		0	Rated	Maximum	DCL	DF	ESR	10	00kHz RMS	Current (n	nA)	D	
AVX Part No.	Case Size	Capacitance (µF)	Voltage (V)	Operating Temperature (°C)	Max. (μA)	Max. (%)	Max. @ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Product Category	MS
CJD227M010#0040E	D	220	10	105	220	6	40	2400	1700	1100	-	3	3
CJD227M010#0050E	D	220	10	105	220	6	50	2100	1500	900	-	3	3
CJY227M010#0015E	Υ	220	10	85	220	6	15	3500	2500	-	-	5	3
CJY227M010#0025E	Υ	220	10	105	220	6	25	2700	1900	1200	-	3	3
CJY227M010#0040E	Y	220 220	10	105	220	6	40	2200	1500	1000	_	3	3
CJY227M010#0050E CJD337M010#0025E	Y D	330	10 10	105 105	220 330	6	50 25	1900 3000	1300 2100	900	_	2	3
CJ5337M010#0025E	5	330	10	105	330	10	35	2600	1800	1200	_	2	3
CJ5337M010#0035E	5	330	10	105	330	10	100	1500	1100	700	_	2	3
000007111010#01002		000				t @ 85°C		.000		7.00			
CJA685M016#0200E	Α	6.8	16	125	10.9	6	200	700	500	300	200	1	3
CJA106M016#0200E	Α	10	16	125	16	6	200	700	500	300	200	1	3
CJB106M016#0100E	В	10	16	125	16	6	100	1100	800	500	300	1	3
CJB106M016#0200E	В	10	16	125	16	6	200	800	600	400	200	1	;
CJT106M016#0100E	T	10	16	125	16	6	100	1000	700	500	300	1	;
CJT106M016#0150E	Т	10	16	125	16	6	150	800	600	400	200	1	,
CJT106M016#0200E	Т	10	16	125	16	6	200	700	500	300	200	1	
CJB156M016#0090E	В	15	16	125	24	6	90	1200	800	500	300	0	
CJB156M016#0150E	В	15	16	125	24	6	150	900	600	400	200	0	
CJA226M016#0300E	A	22	16	105	35.2	10	300	600	400	300	-	3	
CJB226M016#0070E	В	22	16	125	35.2	8	70	1300	900	600	300	0	
CJB226M016#0150E	В	22	16	125	35.2	6	150	900	600	400	200	0	
CJA336M016#0200E CJH336M016#0150E	A	33	16	105 105	52.8	10	200	700 800	500	300 400	-	3	
CJY336M016#0045E	H	33 33	16 16	105	52.8 52.8	6	150 45	2000	600 1400	900	_	3 2	
CJY336M016#0043E	Y	33	16	105	52.8	6	60	1800	1300	800	_	2	
CJY336M016#0070E	Y	33	16	105	52.8	6	70	1600	1100	700	_	2	
CJD476M016#0045E	D	47	16	125	75.2	6	45	2200	1500	1000	600	0	
CJD476M016#0043E	D	47	16	125	75.2	6	70	1800	1300	800	500	0	
CJH476M016#0150E	Н	47	16	105	75.2	6	150	800	600	400	-	3	
CJX476M016#0045E	Х	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	
CJY476M016#0045E	Υ	47	16	105	75.2	6	45	2000	1400	900	_	2	
CJY476M016#0070E	Υ	47	16	105	75.2	6	70	1600	1100	700	-	2	
CJD686M016#0050E	D	68	16	105	108.8	6	50	2100	1500	900	-	2	
CJY686M016#0050E	Υ	68	16	105	108.8	6	50	1900	1300	900	-	2	
CJD107M016#0050E	D	100	16	105	160	6	50	2100	1500	900	-	2	
CJE107M016#0040E	E	100	16	105	160	6	40	2500	1800	1100	-	2	
CJY107M016#0050E	Υ	100	16	105	160	6	50	1900	1300	900	-	2	
CJC157M016#0070E	С	150	16	125	240	10	70	1600	1100	700	400	0	
CJD157M016#0040E	D	150	16	85	240	6	40	2400	1700	-	-	5	
CJD157M016#0050E	D	150	16	85	240	6	50	2100	1500	-	-	5	
CJD157M016#0070E	D	150	16	105	240	6	70	1800	1300	800	-	3	
CJE157M016#0040E	E	150	16	125	240	10	40	2500	1800	1100	600	0	
CJY157M016#0040E	Y	150	16	105	240	6	40	2200	1500	1000	-	3	
CJY157M016#0050E	Y	150	16	105	240	6	50	1900	1300	900	-	3	
CJY157M016#0070E	Y	150	16	105	240	6	70	1600	1100	700	_	3	
CJD227M016#0035E	D	220 220	16	105	352 352	10	35	2500	1800	1100	_	2	
CJD227M016#0050E CJE227M016#0050E	D E		16 16	105	352	10	50	2100 2200	1500 1500	900	600	0	
JE227M016#0050E CJE337M016#0035E	E	220 330	16	125 105	528	10	35	2700	1900	1200	- 600	2	
CJE337M016#0035E	E	330	16	105	528	10	50	2200	1500	1000	_	2	
CJE337M016#0070E	E	330	16	105	528	10	70	1900	1300	900	_	2	
CJ5337M016#0070E	5	330	16	105	528	10	100	1500	1100	700	_	2	
CJ5477M016R0100E	5	470	16	105	752	10	100	1500	1100	700	_	3	
			.,			t @ 85°C				, , , , ,			
CJA106M020#0150E	Α	10	20	105	20	6	150	800	600	400		3	
CJB106M020#0150E	В	10	20	125	20	8	150	900	600	400	200	0	
CJB156M020#0150E	В	15	20	125	30	8	150	900	600	400	200	0	
CJB226M020#0090E	В	22	20	105	44	6	90	1200	800	500	-	3	
CJB226M020#0150E	В	22	20	105	44	6	150	900	600	400	-	3	
CJX226M020#0100E	Χ	22	20	105	44	8	100	1300	900	600	-	2	
CJY226M020#0070E	Υ	22	20	105	44	6	70	1600	1100	700	-	2	
CJX336M020#0100E	Х	33	20	105	66	6	100	1300	900	600	-	2	
CJY336M020#0070E	Υ	33	20	105	66	6	70	1600	1100	700	-	2	
	D	47	20	105	94	6	55	2000	1400	900	-	2	:
				+									
CJD476M020#0055E CJX476M020#0055E CJX476M020#0070E	X	47 47	20	105 105	94 94	6	55 70	1800 1600	1300 1100	800 700	-	3	:

Conductive Polymer Solid Electrolytic Chip Capacitors



A) D C			Rated	Maximum	DCL	DF	ESR	10	0kHz RMS	Current (n	nA)		
AVX Part No.	Case Size	Capacitance (µF)	Voltage (V)	Operating Temperature (°C)	Max. (μA)	Max. (%)	Max. @ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Product Category	MS
ГСJD686M020#0055E	D	68	20	105	136	6	55	2000	1400	900	-	3	3
TCJE686M020#0045E	Е	68	20	105	136	6	45	2400	1700	1100	-	2	3
TCJY686M020#0050E	Υ	68	20	105	136	6	50	1900	1300	900	-	2	3
ГСJC107M020#0070E	С	100	20	125	200	10	70	1600	1100	700	400	0	3
ГСJD107M020#0055E	D	100	20	105	200	6	55	2000	1400	900	_	2	3
TCJE107M020#0045E	Е	100	20	125	200	10	45	2400	1700	1100	600	0	3
ГСJY107M020#0055E	Y	100	20	105	200	6	55	1800	1300	800	-	2	3
ГСJU227M020R0070E	Ü	220	20	105	440	12	70	2300	1600	1000	_	2	3
				1 .00		@ 85°C	, , ,	2000					
CJP105M025#0500E	Р	1.0	25	105	2.5	6	500	400	300	200	_	2	3
CJB475M025#0100E	В	4.7	25	105	11.8	6	100	1100	800	500	_	3	3
CJB475M025#0150E	В	4.7	25	105	11.8	6	150	900	600	400	_	3	3
CJA685M025#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#0090E	В	6.8	25	105	17	6	150	900	600	400	_	3	3
CJT685M025#0100E	T	6.8	25	105	17	6	100	1000	700	500	_	3	3
FC 14106M025#0150E	T	6.8	25	105	17	6	150	800	600	400	_	3	3
CJA106M025#0150E	A	10	25	105	25	6	150	800	600	400	-	3	3
FCJB106M025#0090E	В	10	25	105	25	6	90	1200	800	500	_	2	3
CJB106M025#0100E	В	10	25	105	25	6	100	1100	800	500	-	2	3
CJB106M025#0150E	В	10	25	105	25	6	150	900	600	400	-	2	3
CJB156M025#0100E	В	15	25	105	37.5	6	100	1400	1400	900	-	2	3
CJB156M025#0150E	В	15	25	105	37.5	6	150	900	600	400	-	2	3
CJY156M025#0090E	Υ	15	25	105	37.5	6	90	1400	1000	600	-	2	3
CJB226M025#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
CJC226M025#0100E	С	22	25	105	55	6	100	1300	900	600	-	3	3
CJD226M025#0060E	D	22	25	105	55	6	60	1900	1300	900	_	2	3
CJD226M025#0100E	D	22	25	105	55	6	100	1500	1100	700	-	2	3
CJX226M025#0100E	Х	22	25	105	55	8	100	1300	900	600	_	2	3
CJY226M025#0070E	Υ	22	25	105	55	6	70	1600	1100	700	-	3	3
TCJD336M025#0060E	D	33	25	105	82.5	6	60	1900	1300	900	-	2	3
ГСJD336M025#0100E	D	33	25	105	82.5	6	100	1500	1100	700	-	2	3
TCJX336M025#0070E	Х	33	25	105	82.5	6	70	1600	1100	700	_	2	3
TCJX336M025#0100E	Х	33	25	105	82.5	6	100	1300	900	600	_	2	3
CJY336M025#0060E	Υ	33	25	105	82.5	6	60	1800	1300	800	_	2	3
CJY336M025#0070E	Y	33	25	105	82.5	6	70	1600	1100	700	_	2	3
FCJY336M025#0100E	Y	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
CJD476M025#0000E	D	47	25	105	117.5	6	100	1500	1100	700	_	3	3
CJE476M025#0100E	E	47	25	105	117.5	6	50	2200	1500	1000	_	3	3
CJY476M025#0050E	Y	47	25	105	117.5	6	100	1400	1000	600	_	3	3
											_		
CJD686M025#0070E	D	68	25	105	170	6	70	1800	1300	800		2	3
CJE686M025#0050E	E	68	25	105	170	6	50	2200	1500	1000	-	3	3
CJY686M025#0100E	Υ	68	25	105	170	6	100	1400	1000	600	-	3	3
CJD107M025#0055E	D	100	25	105	250	6	55	2000	1400	900	-	2	3
CJD107M025#0070E	D	100	25	105	250	6	70	1800	1300	800	_	2	3
CJE107M025#0080E	E	100	25	105	250	6	80	1800	1300	800	-	2	3
CJU107M025R0070E	U	100	25	125	250	12	70	2300	1600	1000	600	1	
CJU157M025R0070E	U	150	25	105	375	12	70	2300	1600	1000	-	2	
						@ 85°C							
CJB155M035#0200E	В	1.5	35	105	5.3	6	200	800	600	400	-	2	:
CJB225M035#0200E	В	2.2	35	105	7.7	6	200	800	600	400	-	3	;
CJB335M035#0200E	В	3.3	35	105	11.6	6	200	800	600	400	-	3	
CJB475M035#0200E	В	4.7	35	105	16.5	6	200	800	600	400	-	3	:
CJC475M035#0200E	С	4.7	35	105	16.5	6	200	900	600	400	-	3	;
CJC685M035#0200E	С	6.8	35	105	23.8	6	200	900	600	400	-	3	;
CJB106M035#0200E	В	10	35	105	35	6	200	800	600	400	-	2	
CJC106M035#0200E	C	10	35	105	35	6	200	900	600	400	-	3	;
CJY106M035#0070E	Y	10	35	105	35	6	70	1600	1100	700	_	2	
CJB156M035#0200E	В	15	35	105	52.5	6	200	800	600	400	_	2	,
CJC156M035#0200E	С	15	35	105	52.5	6	200	900	600	400	_	3	
	_	15	35	105	52.5		70			800		3	
CJD156M035#0070E	D					6		1800	1300		-		
CJD156M035#0100E	D	15	35	105	52.5	6	100	1500	1100	700		3	:
CJY156M035#0070E	Y	15	35	105	52.5	6	70	1600	1100	700	-	3	3
CJY156M035#0100E	Y	15	35	105	52.5	6	100	1400	1000	600	-	3	
CJD226M035#0070E	D	22	35	105	77	6	70	1800	1300	800	-	2	3
CJD226M035#0100E	D	22	35	105	77	6	100	1500	1100	700	-	2	:
	Υ	22	35	105	77	6	150	1100	800	500	_	3	;





RATINGS & PART NUMBER REFERENCE

			Rated	Maximum	DCL	DF	ESR	10	0kHz RMS	Current (n	1A)		
AVX Part No.	Case Size	Capacitance (μF)	Voltage (V)	Operating Temperature (°C)	Max. (μA)	Max. (%)	Max. @ 100kHz (mΩ)	45°C	85°C	105°C	125°C	Product Category	MSL
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	E	33	35	105	115.5	6	55	2100	1500	900	-	3	3
TCJE336M035#0070E	E	33	35	105	115.5	6	70	1900	1300	900	-	3	3
TCJU336M035R0070E	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	E	47	35	105	164.5	6	55	2100	1500	900	-	2	3
TCJU476M035R0070E	U	47	35	125	164.5	12	70	2300	1600	1000	600	1	3
TCJY476M035#0100E	Y	47	35	105	164.5	6 t @ 85°C	100	1400	1000	600	_	3	3
TCJB684M050#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	C	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	С	3.3	50	105	16.5	8	200	900	600	400	_	3	3
TCJC475M050#0200E	С	4.7	50	105	23.5	8	200	900	600	400	-	3	3
TCJX475M050#0250E	Х	4.7	50	105	23.5	6	250	800	600	400	_	2	5
TCJY475M050#0250E	Υ	4.7	50	105	23.5	6	250	900	600	400	-	2	5
TCJC685M050#0200E	С	6.8	50	105	34	8	200	900	600	400	ı	3	3
TCJD685M050#0120E	D	6.8	50	105	34	10	120	1400	1000	600	-	3	3
TCJD106M050#0090E	D	10	50	105	50	10	90	1600	1100	700	_	3	3
TCJD106M050#0120E	D	10	50	105	50	10	120	1400	1000	600	-	3	3
TCJE106M050#0070E	Е	10	50	105	50	6	70	1900	1300	900	_	3	3
TCJE106M050#0100E	E	10	50	105	50	6	100	1600	1100	700	_	3	3
TCJD156M050#0150E	D	15	50	125	75	8	150	1200	800	500	300	1	3
TCJE156M050#0070E	E	15	50	105	75	6	70	1900	1300	900	-	3	3
TCJE156M050#0100E	E	15	50	105	75	6	100	1600	1100	700	-	3	3
TCJD226M050#0090E TCJE226M050#0075E	D E	22 22	50	125 125	110 110	8	90 75	1600 1800	1100 1300	700 800	400 500	1	3
TCJE226M050#0075E	E	22	50 50	105	110	8	150	1300	900	600	-	2	3
103L220W030#0130L			30	103		: @ 85°C	130	1300	900				3
TCJB474M063#0400E	В	0.47	63	105	3	8	400	600	400	300	_	3	3
TCJB684M063#0300E	В	0.68	63	105	4.3	8	300	600	400	300	_	3	3
TCJB105M063#0300E	В	1.0	63	105	6.3	8	300	600	400	300	-	3	3
TCJC105M063#0300E	С	1.0	63	105	6.3	6	300	800	600	400	-	3	3
TCJC155M063#0300E	С	1.5	63	105	9.5	6	300	800	600	400	-	3	3
TCJC225M063#0200E	С	2.2	63	105	13.9	6	200	900	600	400	-	3	3
TCJC335M063#0200E	С	3.3	63	105	20.8	6	200	900	600	400	-	3	3
TCJC475M063#0200E	С	4.7	63	105	29.6	6	200	900	600	400	_	3	3
TCJD475M063#0120E	D	4.7	63	105	29.6	6	120	1400	1000	600	-	3	3
TCJD685M063#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 10	63 63	105 105	63	6	100 150	1600 1300	1100	700 600	_	3	3
TCJE106M063#0150E TCJE156M063#0150E	E	15	63	105	63 94.5	6	150	1300	900	600	_	3	3
103E130WI003#0130E		15	03	100		<u> </u>	100	1300	900	000			<u> </u>
TCJD475M075#0150E	D	4.7	75	105	35.3	6	150	1200	800	500	_	3	3
TCJD685M075#0120E	D	6.8	75	105	51	6	120	1400	1000	600	_	3	3
						lt @ 85°C							
TCJD475M100#0250E	D	4.7	100	105	47	8	250	900	600	400	_	4	3
						t @ 85°C							
TCJD335M125#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 $\dot{\text{5}}$ minutes. ESR allowed to move up to 1.25 times catalog limit post mounting.

For typical weight and composition see page 276. NOTE: AVX reserves the right to supply higher voltage ratings or tighter tolerance part in the same case size, to the same reliability standards.



Conductive Polymer Solid Electrolytic Chip Capacitors

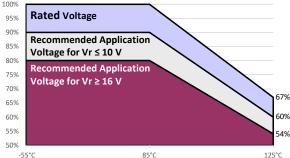


RECOMMENDED DERATING FACTOR

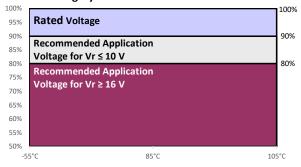
Voltage and temperature derating as percentage of Vr

Product Category 0 100% Rated Voltage 95% 90% **Recommended Application Voltage** 85% for Vr ≤ 10 V 80% **Recommended Application Voltage** 75% for Vr ≥ 16 V 70% 65% 60% 60% 55% 54% 50% -55°C 85°C 105°C 125°C

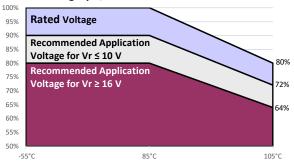
Product Category 1 100%



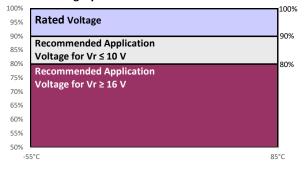
Product Category 2



Product Category 3, 4



Product Category 5



Conductive Polymer Solid Electrolytic Chip Capacitors



PRODUCT CATEGORY 0, 1 (TEMPERATURE RANGE -55°C TO +125°C)

TEST		Condition				Charact	eristics					
	Apply rated	voltage (Ur) at 85°	C (CATEGORY 1)	Visual examination	no visible	e damage						
			3 rated voltage (Ur)	DCL	1.25 x ini	tial limit						
Endurance		l CATEGORIES) for rcuit impedance o		ΔC/C	within +1	0/-20% of	initial value	e				
		room temperature		DF	1.5 x initi	al limit						
	before meas			ESR	2 x initial	limit						
				Visual examination	no visible	e damage						
	Store at 125	°C, no voltage app	olied, for 2000	DCL	2 x initial	limit						
Storage Life	hours. Stabi	lize at room tempe		ΔC/C	within +1	0/-20% of	initial valu	е				
	hours before	e measuring.		DF	1.5 x initi	al limit						
				ESR	2 x initial	limit						
				Visual examination	no visibl	e damage						
		C and 95% relative	humidity fo 500 . Stabilize at room	DCL	3 x initia	l limit						
Humidity		and humidity for		ΔC/C	within +	35/-5% of	initial valu	ie				
	measuring.	and name of		DF	1.5 x initial limit							
				ESR	2 x initia					+20°C		
	Step	Temperature °C	Duration (min)		+20°C							
	1	+20	15	DCL	IL*	L* n/a IL* 10 x IL* 12.5 x IL*						
Temperature	2	-55	15									
Stability	3 4	+20 +85	15 15	ΔC/C	n/a	n/a +0/-20% ±5% +20/-0% +30/-0%						
	5	+125	15									
	6	+20	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	IL*		
	Apply 1 2y 2	/3x rated voltage	(Ur) at 1250C for	Visual examination	no visible	damage		ı				
Surge		of duration 6 min		DCL	initial lim	it				-		
Voltage	5 min 30 sec	c discharge) throu	gh a charge /	ΔC/C	within +1	0/-20% of i	nitial value	9				
	discharge re	esistance of 10000)	DF	1.25 x ini	tial limit						
				Visual examination	no visibl	e damage						
				DCL	initial lin	nit						
Mechanical Shock	MIL-STD-202	2, Method 213, Co	ndition C	ΔC/C	within ±	5% of initia	al value					
				DF	initial limit							
				ESR	initial lin	nit						
				Visual examination	+	e damage						
				DCL	initial lin	nit						
Vibration	MIL-STD-202	2, 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 $^{\circ}\text{C}$ for 24 hours.

Conductive Polymer Solid Electrolytic Chip Capacitors



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

TEST		Condition				Characte	ristics			
	Apply rated voltage	ge (Ur) at 85°C for 2	2000 hours	Visual examination	no visible	damage				
	through a circuit	impedance of ≤0.10	Ω/V (all	DCL	1.25 x ini	tial limit				
Endurance	(CATEGORY 2) or	nd/or apply rated vo 0.8x rated voltage	(CATEGORY 3, 4)	ΔC/C	within +1	0/-20% of i	nitial value	!		
		O hours through a ci vs stabilize at room		DF	1.5 x initia	al limit				
	1-2 hours before		toporataro ro.	ESR	2 x initial	limit			-	
				Visual examination	no visible	damage			-	
				DCL (V _R ≤ 75V)	1.25 x ini	tial limit				
0		o voltage applied, for		DCL (V _R > 75V)	2 x initial	limit				
Storage Life	measuring.	temperature for 1-2	z nours before	ΔC/C	within +1	0/-20% of i	nitial value	!		
	ineasuring.			DF	1.5 x init	ial limit				
				ESR	2 x initial	limit				
				Visual examination	no visible	e damage				
		d 95% relative humi		DCL	3 x initial limit					
Humidity		plied voltage. Stabi humidity for 1-2 ho		ΔC/C	within +35/-5% of initial value					
	measuring.	mumulty for 1-2 flo	uis belole	DF	1.5 x init					
	incubaning.			ESR	2 x initial limit					
	Step	Temperature °C	Duration (min)		+20°C	-55°C	+20°C	+85°C	+105°C	+20°C
	1	+20	15	DCL	IL*	n/a	IL*	10 v II *	12.5 x IL*	IL*
Temperature	2	-55	15	DOL	"-	11/ 0	- '-	10 X IL	12.5 X IL	
Stability	3	+20	15	ΔC/C	n/a	+30/-0%	±5%			
	4	+85	15		n/a +0/-20% ±5% +20/-0% +30/-0%					
	5 6	+105 +20	15 15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	IL*
			-	Visual examination	no visible	damage				
		oltage (Ur) at 105°C f 3x rated voltage (Ur) a		DCL	initial limi					
Surge		r 1000 cycles of dura		_						
Voltage	sec charge, 5 min discharge resistan	30 sec discharge) th	rough a charge /	ΔC/C	within +1	0/-20% of ir	nitial value		-	
	uischarge resistan	ice 01 100002		DF	1.25 x init	tial limit				
				Visual examination	no visible	e damage				
				DCL	initial lim	nit				
Mechanical Shock	MIL-STD-202, Me	thod 213, Condition	n C	ΔC/C	within ±5	% of initia	l value			
SHOCK				DF	initial limit					
				ESR	initial limit					
				Visual examination	no visible	e damage				
				DCL	initial lim	nit				
Vibration	MIL-STD-202, Me	thod 204, Condition	n D	ΔC/C	within ±5	5% of initia	l value			
				DF	initial lim	nit				
				ESR	initial lim	nit				

^{*}Initial Limi

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





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

TEST	Condition			Characteristics					
Endurance	Apply rated voltage (Ur) at 85°C for 2000 hours through a circuit impedance of ≤0.1Ω/V. Stabilize at room temperature for 1-2 hours before measuring.			Visual examination	no visible damage				
				DCL	1.25 x initial limit				
				ΔC/C	within +10/-20% of initial value				
				DF	1.5 x initial limit				
				ESR	2 x initial limit				
Storage Life	Store at 85°C, no voltage applied, for 2000 hours. Stabilize at room temperature for 1-2 hours before measuring.			Visual examination	no visible damage				
				DCL	1.25 x initial limit				
				ΔC/C	within +10/-20% of initial value				
				DF	1.5 x initial limit				
				ESR	2 x initial limit				
Humidity	Store at 65°C and 95% relative humidity for 500 hours, with no applied voltage. Stabilize at room temperature and humidity for 1-2 hours before measuring.			Visual examination	no visible damage				
				DCL	5 x initial limit				
				ΔC/C	within +35/-5% of initial value				
				DF	1.5 x initial limit				
				ESR	2 x initial limit				
Temperature Stability	Step	Temperature°C	Duration(min)		+20°C	-55°C	+20°C	+85°C	+20°C
			` '	DCL	IL*	n/a	IL*	10 x IL*	IL*
	1	+20	15						
	3	-55 +20	15 15	ΔC/C	n/a	+0/-20%	±5%	+20/-0%	±5%
	4	+20	15	- DF				 	
	5	+125	15		IL*	1.5 x IL*	IL*	1.5 x IL*	IL*
Surge Voltage			_	Visual examination	no visible damage				
	Apply 1.3x rated voltage (Ur) at 85°C for 1000 cycles of duration 6 min (30 sec charge, 5 min 30 sec discharge) through a charge / discharge resistance of 1000Ω			DCL	initial limit				
				ΔC/C	within +10/-20% of initial value				
				DF	1.25 x initial limit				
Mechanical Shock	MIL-STD-202, Method 213, Condition C			Visual examination	no visible damage				
				DCL	initial limit				
				ΔC/C	within ±5% of initial value				
				DF	initial limit				
				ESR	initial limit				
Vibration	MIL-STD-202, Method 204, Condition D			Visual examination	no visible damage				
				DCL	initial limit				
				ΔC/C	within ±5% of initial value				
				DF	initial limit				
				ESR	initial limit				

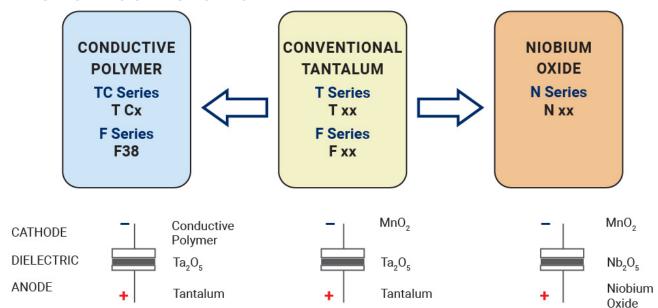
^{*}Initial Limit

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

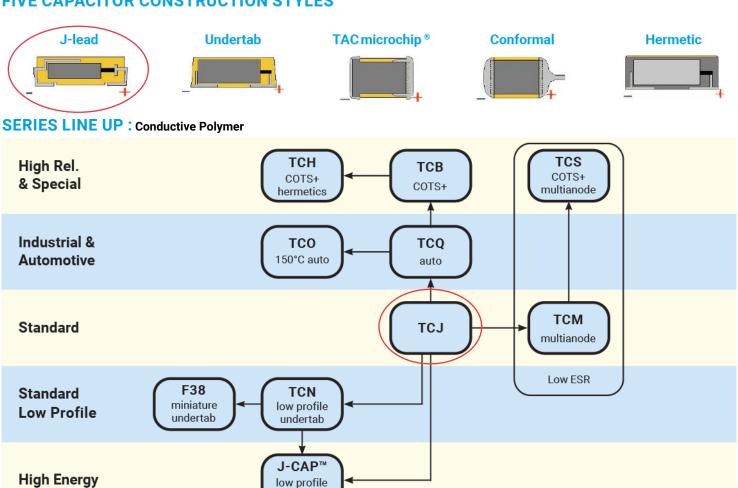
Conductive Polymer Solid Electrolytic Chip Capacitors



SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



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