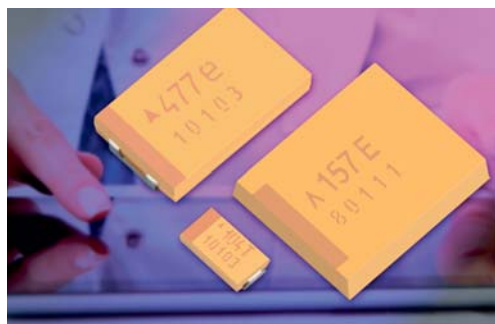




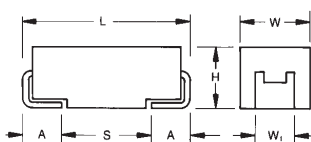
FEATURES

- General purpose SMT chip tantalum series
- CV range: 0.10-1000 μ F / 2.5-50V
- 10 case sizes in low profile option available



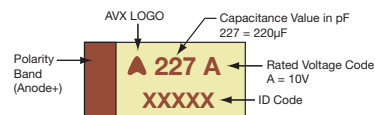
APPLICATIONS

- Entertainment/Infotainment systems

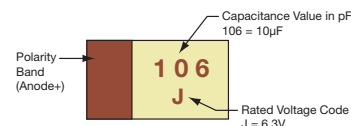


MARKING

F, H, K, S, T, W, X, Y CASE



P, R CASE



CASE DIMENSIONS: millimeters (inches)

Code	EIA Code	EIA Metric	L±0.20 (0.008)	W+0.20 (0.008) -0.10 (0.004)	H Max.	W ₁ ±0.20 (0.008)	A+0.30 (0.012) -0.20 (0.008)	S Min.
F	2312	6032-20	6.00 (0.236)	3.20 (0.126)	2.00 (0.079)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
H	1210	3528-15	3.50 (0.138)	2.80 (0.110)	1.50 (0.059)	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)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
P	0805	2012-15	2.05 (0.081)	1.35 (0.053)	1.50 (0.059)	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)	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)	1.20 (0.047)	0.80 (0.031)	1.10 (0.043)
T	1210	3528-12	3.50 (0.138)	2.80 (0.110)	1.20 (0.047)	2.20 (0.087)	0.80 (0.031)	1.40 (0.055)
W	2312	6032-15	6.00 (0.236)	3.20 (0.126)	1.50 (0.059)	2.20 (0.087)	1.30 (0.051)	2.90 (0.114)
X	2917	7343-15	7.30 (0.287)	4.30 (0.169)	1.50 (0.059)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)
Y	2917	7343-20	7.30 (0.287)	4.30 (0.169)	2.00 (0.079)	2.40 (0.094)	1.30 (0.051)	4.40 (0.173)

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

HOW TO ORDER

TAJ	C	107	M	010	R	NJ	—
Type	Case Size See table above	Capacitance Code pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)	Tolerance K = ±10% M = ±20%	Rated DC Voltage 002 = 2.5Vdc 004 = 4Vdc 006 = 6.3Vdc 010 = 10Vdc 016 = 16Vdc 020 = 20Vdc 025 = 25Vdc 035 = 35Vdc 050 = 50Vdc	Packaging R = Pure Tin 7" Reel S = Pure Tin 13" Reel A = Gold Plating 7" Reel B = Gold Plating 13" Reel A, B = on selected codes, please contact manufacturer	Specification Suffix NJ = Standard Suffix	Additional characters may be added for special requirements V = Dry pack Option (selected codes only)

TECHNICAL SPECIFICATIONS

Technical Data:

All technical data relate to an ambient temperature of +25°C

Capacitance Range: 0.10 μ F to 1000 μ F

Capacitance Tolerance: ±10%; ±20%

Rated Voltage (V _R)	≤ +85°C:	2.5	4	6.3	10	16	20	25	35	50
Category Voltage (V _C)	≤ +125°C:	1.7	2.7	4	7	10	13	17	23	33
Surge Voltage (V _S)	≤ +85°C:	3.3	5.2	8	13	20	26	32	46	65
Surge Voltage (V _S)	≤ +125°C:	2.2	3.4	5	8	13	16	20	28	40

Temperature Range: -55°C to +125°C

Reliability: 1% per 1000 hours at 85°C, V_R with 0.1 Ω /V series impedance, 60% confidence level

Termination Finished: Sn Plating (standard), Gold and SnPb Plating upon request

For AEC-Q200 availability, please contact AVX

CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

Capacitance		Rated voltage DC (V_R) to 85°C								
µF	Code	2.5V (e)	4V (G)	6.3V (J)	10V (A)	16V (C)	20V (D)	25V (E)	35V (V)	50V (T)
0.10	104						R/S		R/S	S
0.15	154						R/S	R	R/S	S
0.22	224						R/S	R	R/S	P/R/S
0.33	334						R/S	R	R/S	P/R ^(M) /S/T
0.47	474						R/S	R/S	R/S/T	S/T
0.68	684					R/S	R/S/T	R/S	P/S/T	
1.0	105				R/S	R/S/T	R/S/T	P/R/S	P/S/T	W
1.5	155			R/S	R/S	R/S	P/R/S/T	P/S/T	T	W
2.2	225		R/S	R/S	R/S	R/S/T	P/R/S/T	T	T	W
3.3	335		R/S	R/S	R/S/T	R/S/T	T	T/W	W	Y
4.7	475	R	R/S	R/S/T	R/S/T	K/P/S/T	T	T/W	W	X/Y
6.8	685	R	R/S/T	R/S/T	P/R/S/T	S/T	T	W	Y	Y
10	106	R/S	R/S/T	P/R/S/T	K/P/R ^(M) /S/T	T/W	W	W	X/Y	
15	156	R	R/S/T	K/P/R/S/T	S/T/W	T ^(M) /W	W	Y	Y	
22	226	P/R	K/P/R/S/T	K/P ^(M) /S/T/W	T/W	W	W/Y	F/Y	Y	
33	336	K/P/S	K/P ^(M) /S/T/W	T/W	W	W/Y	X/Y	Y		
47	476	P ^(M) /S	T/W	T/W	H/W/Y	W/X/Y	X/Y			
68	686	T	T/W	W	W/Y	F/X/Y	Y			
100	107	T/W	T ^(M) /W	W/Y	W/X/Y	F ^(M) /Y				
150	157	T ^(M) /W	W/Y	W/X/Y	F/X ^(M) /Y	Y ^(M)				
220	227	W/Y	W/X/Y	F/X/Y	Y					
330	337	W ^(M) /Y	F/X/Y	Y						
470	477	F/Y	Y	Y						
680	687	Y	Y ^(M)							
1000	108	Y ^(M)								

Available Ratings ^(M tolerance only)

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

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (μA)	DF Max. (%)	ESR Max. @ 100kHz (Ω)	MSL	100kHz RMS Current (mA)			
											25°C	85°C	125°C	
2.5 Volt @ 85°C														
TAJR475*002#NJ	R	4.7	2.5	85	1.7	125	0.5	6	20	1	52	47	21	
TAJR685*002#NJ	R	6.8	2.5	85	1.7	125	0.5	6	20	1	52	47	21	
TAJR106*002#NJ	R	10	2.5	85	1.7	125	0.5	8	4.5	1	111	99	44	
TAJS106*002#NJ	S	10	2.5	85	1.7	125	0.5	6	8	1	90	81	36	
TAJR156*002#NJ	R	15	2.5	85	1.7	125	0.5	8	4.1	1	116	104	46	
TAJP226*002#NJ	P	22	2.5	85	1.7	125	0.5	8	3.5	1	131	118	52	
TAJR226*002#NJ	R	22	2.5	85	1.7	125	0.5	8	3.8	1	120	108	48	
TAJK336*002#NJ	K	33	2.5	85	1.7	125	0.8	8	1.7	1	188	169	75	
TAJP336*002#NJ	P	33	2.5	85	1.7	125	0.7	8	3.5	1	131	118	52	
TAJS336*002#NJ	S	33	2.5	85	1.7	125	0.7	8	1.5	1	208	187	83	
TAJP476M002#NJ	P	47	2.5	85	1.7	125	1.2	12	3.2	1	137	123	55	
TAJS476*002#NJ	S	47	2.5	85	1.7	125	1.2	8	1.6	1	202	181	81	
TAJT686*002#NJ	T	68	2.5	85	1.7	125	1.4	8	1.5	1	231	208	92	
TAJT107*002#NJ	T	100	2.5	85	1.7	125	2.5	15	1.3	1	248	223	99	
TAJW107*002#NJ	W	100	2.5	85	1.7	125	2.5	8	0.4	1	474	427	190	
TAJT157M002#NJ	T	150	2.5	85	1.7	125	3.8	18	1.2	1	258	232	103	
TAJW157*002#NJ	W	150	2.5	85	1.7	125	3.8	8	0.3	1	548	493	219	
TAJW227*002#NJ	W	220	2.5	85	1.7	125	5.5	8	0.3	1	548	493	219	
TAJY227*002#NJ	Y	220	2.5	85	1.7	125	5.5	8	0.3	1 ¹⁾	645	581	258	
TAJW337M002#NJ	W	330	2.5	85	1.7	125	8.2	12	0.3	1	548	493	219	
TAJY337*002#NJ	Y	330	2.5	85	1.7	125	8.2	8	0.3	1 ¹⁾	645	581	258	
TAJF477*002#NJ	F	470	2.5	85	1.7	125	11.8	12	0.3	1	577	520	231	
TAJY477*002#NJ	Y	470	2.5	85	1.7	125	11	12	0.2	1 ¹⁾	791	712	316	
TAJY687*002#NJ	Y	680	2.5	85	1.7	125	17	12	0.2	1 ¹⁾	791	712	316	
TAJY108M002#NJ	Y	1000	2.5	85	1.7	125	25	30	0.2	1 ¹⁾	791	712	316	
4 Volt @ 85°C														
TAJR225*004#NJ	R	2.2	4	85	2.7	125	0.5	6	25	1	47	42	19	
TAJS225*004#NJ	S	2.2	4	85	2.7	125	0.5	6	25	1	51	46	20	
TAJR335*004#NJ	R	3.3	4	85	2.7	125	0.5	6	20	1	52	47	21	
TAJS335*004#NJ	S	3.3	4	85	2.7	125	0.5	6	18	1	60	54	24	
TAJR475*004#NJ	R	4.7	4	85	2.7	125	0.5	6	12	1	68	61	27	
TAJS475*004#NJ	S	4.7	4	85	2.7	125	0.5	6	10	1	81	73	32	
TAJR685*004#NJ	R	6.8	4	85	2.7	125	0.5	6	5.2	1	103	93	41	
TAJS685*004#NJ	S	6.8	4	85	2.7	125	0.5	6	8	1	90	81	36	
TAJT685*004#NJ	T	6.8	4	85	2.7	125	0.5	6	6	1	115	104	46	
TAJR106*004#NJ	R	10	4	85	2.7	125	0.5	6	7	1	89	80	35	
TAJS106*004#NJ	S	10	4	85	2.7	125	0.5	6	6	1	104	94	42	
TAJT106*004#NJ	T	10	4	85	2.7	125	0.5	6	5	1	126	114	51	
TAJR156*004#NJ	R	15	4	85	2.7	125	0.6	8	4	1	117	106	47	
TAJS156*004#NJ	S	15	4	85	2.7	125	0.6	8	4	1	127	115	51	
TAJT156*004#NJ	T	15	4	85	2.7	125	0.6	6	2	1	200	180	80	
TAJK226*004#NJ	K	22	4	85	2.7	125	0.9	8	1.8	1	183	164	73	
TAJP226*004#NJ	P	22	4	85	2.7	125	0.9	8	4	1	122	110	49	
TAJR226*004#NJ	R	22	4	85	2.7	125	0.9	8	3.8	1	120	108	48	
TAJS226*004#NJ	S	22	4	85	2.7	125	0.9	8	3.5	1	136	123	55	
TAJT226*004#NJ	T	22	4	85	2.7	125	0.9	6	1.9	1	205	185	82	
TAJK336*004#NJ	K	33	4	85	2.7	125	1.3	10	1.7	1	188	169	75	
TAJP336M004#NJ	P	33	4	85	2.7	125	1.3	8	2.8	1	146	132	59	
TAJS336*004#NJ	S	33	4	85	2.7	125	1.3	8	1.7	1	196	176	78	
TAJT336*004#NJ	T	33	4	85	2.7	125	1.3	6	1.7	1	217	195	87	
TAJW336*004#NJ	W	33	4	85	2.7	125	1.3	6	0.6	1	387	349	155	
TAJT476*004#NJ	T	47	4	85	2.7	125	1.9	10	1.6	1	224	201	89	
TAJW476*004#NJ	W	47	4	85	2.7	125	1.9	6	0.5	1	424	382	170	
TAJT686*004#NJ	T	68	4	85	2.7	125	2.7	15	1.5	1	231	208	92	
TAJW686*004#NJ	W	68	4	85	2.7	125	2.7	6	0.4	1	474	427	190	
TAJT107M004#NJ	T	100	4	85	2.7	125	4	14	1.4	1	239	215	96	
TAJW107*004#NJ	W	100	4	85	2.7	125	4	6	0.4	1	474	427	190	
TAJW157*004#NJ	W	150	4	85	2.7	125	6	6	0.5	1	424	382	170	
TAJY157*004#NJ	Y	150	4	85	2.7	125	6	6	0.4	1 ¹⁾	559	503	224	
TAJW227*004#NJ	W	220	4	85	2.7	125	8.8	8	0.3	1	548	493	219	
TAJX227*004#NJ	X	220	4	85	2.7	125	8.8	8	0.9	1 ¹⁾	577	520	231	
TAJY227*004#NJ	Y	220	4	85	2.7	125	8.8	8	0.3	1 ¹⁾	645	581	258	
TAJF337*004#NJ	F	330	4	85	2.7	125	13.2	10	0.3	1	577	520	231	
TAJX337*004#NJ	X	330	4	85	2.7	125	13.2	8	0.3	1 ¹⁾	577	520	231	
TAJY337*004#NJ	Y	330	4	85	2.7	125	13.2	12	0.4	1 ¹⁾	559	503	224	
TAJY477*004#NJ	Y	470	4	85	2.7	125	18.8	14	0.4	1 ¹⁾	559	503	224	
TAJY687M004#NJ	Y	680	4	85	2.7	125	27.2	25	0.2	1 ¹⁾	791	712	316	
6.3 Volt @ 85°C														
TAJR155*006#NJ	R	1.5	6.3	85	4	125	0.5	6	25	1	47	42	19	
TAJS155*006#NJ	S	1.5	6.3	85	4	125	0.5	6	25	1	51	46	20	

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (μA)	DF Max. (%)	ESR Max. @ 100kHz (Ω)	MSL	100kHz RMS Current (mA)		
											25°C	85°C	125°C
TAJR225*006#NJ	R	2.2	6.3	85	4	125	0.5	6	20	1	52	47	21
TAJS225*006#NJ	S	2.2	6.3	85	4	125	0.5	6	18	1	60	54	24
TAJR335*006#NJ	R	3.3	6.3	85	4	125	0.5	6	12	1	68	61	27
TAJS335*006#NJ	S	3.3	6.3	85	4	125	0.5	6	9	1	85	76	34
TAJR475*006#NJ	R	4.7	6.3	85	4	125	0.5	6	7	1	89	80	35
TAJS475*006#NJ	S	4.7	6.3	85	4	125	0.5	6	7.5	1	93	84	37
TAJT475*006#NJ	T	4.7	6.3	85	4	125	0.5	6	6	1	115	104	46
TAJR685*006#NJ	R	6.8	6.3	85	4	125	0.5	8	7	1	89	80	35
TAJS685*006#NJ	S	6.8	6.3	85	4	125	0.5	6	2.6	1	158	142	63
TAJT685*006#NJ	T	6.8	6.3	85	4	125	0.5	6	5	1	126	114	51
TAJP106*006#NJ	P	10	6.3	85	4	125	0.6	8	6	1	100	90	40
TAJR106*006#NJ	R	10	6.3	85	4	125	0.6	8	6	1	96	86	38
TAJS106*006#NJ	S	10	6.3	85	4	125	0.6	8	4	1	127	115	51
TAJT106*006#NJ	T	10	6.3	85	4	125	0.6	6	4	1	141	127	57
TAJK156*006#NJ	K	15	6.3	85	4	125	0.9	6	2	1	173	156	69
TAJP156*006#NJ	P	15	6.3	85	4	125	0.9	8	3.5	1	131	118	52
TAJR156*006#NJ	R	15	6.3	85	4	125	0.9	8	4.1	1	116	104	46
TAJS156*006#NJ	S	15	6.3	85	4	125	0.9	8	3.5	1	136	123	55
TAJT156*006#NJ	T	15	6.3	85	4	125	0.9	6	3.5	1	151	136	60
TAJK226*006#NJ	K	22	6.3	85	4	125	1.3	10	1.8	1	183	164	73
TAJP226*006#NJ	P	22	6.3	85	4	125	1.3	8	3.3	1	135	121	54
TAJS226*006#NJ	S	22	6.3	85	4	125	1.3	10	1.8	1	190	171	76
TAJT226*006#NJ	T	22	6.3	85	4	125	1.4	8	2.5	1	179	161	72
TAJW226*006#NJ	W	22	6.3	85	4	125	1.3	6	0.6	1	387	349	155
TAJT336*006#NJ	T	33	6.3	85	4	125	2.1	10	2.5	1	179	161	72
TAJW336*006#NJ	W	33	6.3	85	4	125	2	6	0.5	1	424	382	170
TAJT476*006#NJ	T	47	6.3	85	4	125	2.8	10	1.6	1	224	201	89
TAJW476*006#NJ	W	47	6.3	85	4	125	2.8	6	0.5	1	424	382	170
TAJW686*006#NJ	W	68	6.3	85	4	125	4.3	6	1.5	1	245	220	98
TAJW107*006#NJ	W	100	6.3	85	4	125	6.3	6	0.9	1	316	285	126
TAJY107*006#NJ	Y	100	6.3	85	4	125	6.3	6	0.7	1 ¹⁾	423	380	169
TAJW157*006#NJ	W	150	6.3	85	4	125	9	8	0.3	1	548	493	219
TAJX157*006#NJ	X	150	6.3	85	4	125	9	6	0.4	1 ¹⁾	500	450	200
TAJY157*006#NJ	Y	150	6.3	85	4	125	9.5	6	0.4	1 ¹⁾	559	503	224
TAJF227*006#NJ	F	220	6.3	85	4	125	13.2	10	0.3	1	577	520	231
TAJX227*006#NJ	X	220	6.3	85	4	125	13.2	8	0.3	1 ¹⁾	577	520	231
TAJY227*006#NJ	Y	220	6.3	85	4	125	13.9	8	0.7	1 ¹⁾	423	380	169
TAJY337*006#NJ	Y	330	6.3	85	4	125	20.8	12	0.4	1 ¹⁾	559	503	224
TAJY477*006#NJ	Y	470	6.3	85	4	125	28.2	20	0.2	1 ¹⁾	791	712	316
10 Volt @ 85°C													
TAJR105*010#NJ	R	1	10	85	7	125	0.5	4	25	1	47	42	19
TAJS105*010#NJ	S	1	10	85	7	125	0.5	4	25	1	51	46	20
TAJR155*010#NJ	R	1.5	10	85	7	125	0.5	6	20	1	52	47	21
TAJS155*010#NJ	S	1.5	10	85	7	125	0.5	6	20	1	57	51	23
TAJR225*010#NJ	R	2.2	10	85	7	125	0.5	6	15	1	61	54	24
TAJS225*010#NJ	S	2.2	10	85	7	125	0.5	6	12	1	74	66	29
TAJR335*010#NJ	R	3.3	10	85	7	125	0.5	6	8	1	83	75	33
TAJS335*010#NJ	S	3.3	10	85	7	125	0.5	6	8	1	90	81	36
TAJT335*010#NJ	T	3.3	10	85	7	125	0.5	6	6	1	115	104	46
TAJR475*010#NJ	R	4.7	10	85	7	125	0.5	6	9	1	78	70	31
TAJS475*010#NJ	S	4.7	10	85	7	125	0.5	6	5	1	114	103	46
TAJT475*010#NJ	T	4.7	10	85	7	125	0.5	6	5	1	126	114	51
TAJP685*010#NJ	P	6.8	10	85	7	125	0.6	6	5	1	110	99	44
TAJR685*010#NJ	R	6.8	10	85	7	125	0.7	6	5.2	1	103	93	41
TAJS685*010#NJ	S	6.8	10	85	7	125	0.7	6	4	1	127	115	51
TAJT685*010#NJ	T	6.8	10	85	7	125	0.7	6	4	1	141	127	57
TAJK106*010#NJ	K	10	10	85	7	125	1	6	2.2	1	165	149	66
TAJP106*010#NJ	P	10	10	85	7	125	1	8	6	1	100	90	40
TAJR106*010#NJ	R	10	10	85	7	125	1	20	6	1	96	86	38
TAJS106*010#NJ	S	10	10	85	7	125	1	8	3	1	147	132	59
TAJT106*010#NJ	T	10	10	85	7	125	1	6	3	1	163	147	65
TAJS156*010#NJ	S	15	10	85	7	125	1.5	6	2	1	180	162	72
TAJT156*010#NJ	T	15	10	85	7	125	1.5	8	2.8	1	169	152	68
TAJW156*010#NJ	W	15	10	85	7	125	1.5	6	0.7	1	359	323	143
TAJT226*010#NJ	T	22	10	85	7	125	2.2	8	2.2	1	191	172	76
TAJW226*010#NJ	W	22	10	85	7	125	2.2	6	0.6	1	387	349	155
TAJW336*010#NJ	W	33	10	85	7	125	3.3	6	1.6	1	237	213	95
TAJH476*006#NJ	H	47	10	85	7	125	4.7	8	1.0	1	283	255	113
TAJW476*010#NJ	W	47	10	85	7	125	4.7	6	1.4	1	254	228	101
TAJY476*010#NJ	Y	47	10	85	7	125	4.7	6	0.5	1 ¹⁾	500	450	200
TAJW686*010#NJ	W	68	10	85	7	125	6.8	6	1.2	1	274	246	110

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (μA)	DF Max. (%)	ESR Max. @ 100kHz (Ω)	MSL	100kHz RMS Current (mA)		
											25°C	85°C	125°C
TAJY686*010#NJ	Y	68	10	85	7	125	6.8	6	0.9	1 ¹⁾	373	335	149
TAJW107*010#NJ	W	100	10	85	7	125	10	6	0.4	1	474	427	190
TAJX107*010#NJ	X	100	10	85	7	125	10	8	0.9	1 ¹⁾	333	300	133
TAJY107*010#NJ	Y	100	10	85	7	125	10	6	0.9	1 ¹⁾	373	335	149
TAJF157*010#NJ	F	150	10	85	7	125	15	10	0.3	1	577	520	231
TAJX157M010#NJ	X	150	10	85	7	125	15	6	0.3	1 ¹⁾	577	520	231
TAJY157*010#NJ	Y	150	10	85	7	125	15	6	1.2	1 ¹⁾	323	290	129
TAJY227*010#NJ	Y	220	10	85	7	125	22	10	0.5	1 ¹⁾	500	450	200
16 Volt @ 85°C													
TAJR684*016#NJ	R	0.68	16	85	10	125	0.5	4	25	1	47	42	19
TAJS684*016#NJ	S	0.68	16	85	10	125	0.5	4	25	1	51	46	20
TAJR105*016#NJ	R	1	16	85	10	125	0.5	4	20	1	52	47	21
TAJS105*016#NJ	S	1	16	85	10	125	0.5	4	15	1	66	59	26
TAJT105*016#NJ	T	1	16	85	10	125	0.5	4	5	1	126	114	51
TAJR155*016#NJ	R	1.5	16	85	10	125	0.5	6	10	1	74	67	30
TAJS155*016#NJ	S	1.5	16	85	10	125	0.5	6	12	1	74	66	29
TAJR225*016#NJ	R	2.2	16	85	10	125	0.5	6	6.5	1	92	83	37
TAJS225*016#NJ	S	2.2	16	85	10	125	0.5	6	6	1	104	94	42
TAJT225*016#NJ	T	2.2	16	85	10	125	0.5	6	6.5	1	111	100	44
TAJR335*016#NJ	R	3.3	16	85	10	125	0.5	8	5	1	105	94	42
TAJS335*016#NJ	S	3.3	16	85	10	125	0.5	6	5	1	114	103	46
TAJT335*016#NJ	T	3.3	16	85	10	125	0.5	6	5	1	126	114	51
TAJK475*016#NJ	K	4.7	16	85	10	125	0.8	6	3.1	1	139	125	56
TAJP475*016#NJ	P	4.7	16	85	10	125	0.8	8	5	1	110	99	44
TAJS475*016#NJ	S	4.7	16	85	10	125	0.8	8	4	1	127	115	51
TAJT475*016#NJ	T	4.7	16	85	10	125	0.8	6	3.1	1	161	145	64
TAJS685*016#NJ	S	6.8	16	85	10	125	1.1	8	2.4	1	165	148	66
TAJT685*016#NJ	T	6.8	16	85	10	125	1.1	6	3.5	1	151	136	60
TAJT106*016#NJ	T	10	16	85	10	125	1.6	8	2.2	1	191	172	76
TAJW106*016#NJ	W	10	16	85	10	125	1.6	6	2	1	212	191	85
TAJT156M016#NJ	T	15	16	85	10	125	2.4	6	2	1	200	180	80
TAJW156*016#NJ	W	15	16	85	10	125	2.4	6	0.7	1	359	323	143
TAJW226*016#NJ	W	22	16	85	10	125	3.5	6	1.6	1	237	213	95
TAJW336*016#NJ	W	33	16	85	10	125	5.3	6	1.5	1	245	220	98
TAJY336*016#NJ	Y	33	16	85	10	125	5.3	6	0.9	1 ¹⁾	373	335	149
TAJW476*016#NJ	W	47	16	85	10	125	7.5	6	0.4	1	474	427	190
TAJX476*016#NJ	X	47	16	85	10	125	7.5	6	0.75	1 ¹⁾	365	329	146
TAJY476*016#NJ	Y	47	16	85	10	125	7.5	6	0.7	1 ¹⁾	423	380	169
TAJF686*016#NJ	F	68	16	85	10	125	10.9	10	0.4	1	500	450	200
TAJX686*016#NJ	X	68	16	85	10	125	10.9	8	0.6	1 ¹⁾	408	367	163
TAJY686*016#NJ	Y	68	16	85	10	125	10.9	6	0.9	1 ¹⁾	373	335	149
TAJF107M016#NJ	F	100	16	85	10	125	16	10	0.4	1	500	450	200
TAJY107*016#NJ	Y	100	16	85	10	125	16	8	0.9	1 ¹⁾	373	335	149
TAJY157M016#NJ	Y	150	16	85	10	125	24	15	0.3	1 ¹⁾	645	581	258
20 Volt @ 85°C													
TAJR104*020#NJ	R	0.1	20	85	13	125	0.5	4	25	1	47	42	19
TAJS104*020#NJ	S	0.1	20	85	13	125	0.5	4	25	1	51	46	20
TAJR154*020#NJ	R	0.15	20	85	13	125	0.5	4	25	1	47	42	19
TAJS154*020#NJ	S	0.15	20	85	13	125	0.5	4	25	1	51	46	20
TAJR224*020#NJ	R	0.22	20	85	13	125	0.5	4	25	1	47	42	19
TAJS224*020#NJ	S	0.22	20	85	13	125	0.5	4	25	1	51	46	20
TAJR334*020#NJ	R	0.33	20	85	13	125	0.5	4	25	1	47	42	19
TAJS334*020#NJ	S	0.33	20	85	13	125	0.5	4	25	1	51	46	20
TAJR474*020#NJ	R	0.47	20	85	13	125	0.5	4	25	1	47	42	19
TAJS474*020#NJ	S	0.47	20	85	13	125	0.5	4	25	1	51	46	20
TAJR684*020#NJ	R	0.68	20	85	13	125	0.5	4	20	1	52	47	21
TAJS684*020#NJ	S	0.68	20	85	13	125	0.5	4	25	1	51	46	20
TAJT684*020#NJ	T	0.68	20	85	13	125	0.5	4	15	1	73	66	29
TAJR105*020#NJ	R	1	20	85	13	125	0.5	4	20	1	52	47	21
TAJS105*020#NJ	S	1	20	85	13	125	0.5	4	12	1	74	66	29
TAJT105*020#NJ	T	1	20	85	13	125	0.5	4	9	1	94	85	38
TAJP155*020#NJ	P	1.5	20	85	13	125	0.5	6	9.6	1	79	71	32
TAJR155*020#NJ	R	1.5	20	85	13	125	0.5	6	9.6	1	76	68	30
TAJS155*020#NJ	S	1.5	20	85	13	125	0.5	6	5.4	1	110	99	44
TAJT155*020#NJ	T	1.5	20	85	13	125	0.5	6	6.5	1	111	100	44
TAJP225*020#NJ	P	2.2	20	85	13	125	0.5	6	8.3	1	85	77	34
TAJR225*020#NJ	R	2.2	20	85	13	125	0.5	6	6	1	96	86	38
TAJS225*020#NJ	S	2.2	20	85	13	125	0.5	6	4.5	1	120	108	48
TAJT225*020#NJ	T	2.2	20	85	13	125	0.5	6	6	1	115	104	46
TAJT335*020#NJ	T	3.3	20	85	13	125	0.7	6	3	1	163	147	65
TAJT475*020#NJ	T	4.7	20	85	13	125	0.9	6	3.1	1	161	145	64

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (μA)	DF Max. (%)	ESR Max. @ 100kHz (Ω)	MSL	100kHz RMS Current (mA)		
											25°C	85°C	125°C
TAJT685*020#NJ	T	6.8	20	85	13	125	1.4	6	2.6	1	175	158	70
TAJW106*020#NJ	W	10	20	85	13	125	2	6	1.9	1	218	196	87
TAJW156*020#NJ	W	15	20	85	13	125	3	6	1.7	1	230	207	92
TAJW226*020#NJ	W	22	20	85	13	125	4.4	6	1.6	1	237	213	95
TAJY226*020#NJ	Y	22	20	85	13	125	4.4	6	0.9	1 ¹⁾	373	335	149
TAJX336*020#NJ	X	33	20	85	13	125	6.6	6	0.5	1 ¹⁾	447	402	179
TAJY336*020#NJ	Y	33	20	85	13	125	6.6	6	0.6	1 ¹⁾	456	411	183
TAJX476*020#NJ	X	47	20	85	13	125	9.4	6	0.4	1 ¹⁾	500	450	200
TAJY476*020#NJ	Y	47	20	85	13	125	9.4	6	0.9	1 ¹⁾	373	335	149
TAJY686*020#NJ	Y	68	20	85	13	125	13.6	6	0.9	1 ¹⁾	373	335	149
25 Volt @ 85°C													
TAJR154*025#NJ	R	0.15	25	85	17	125	0.5	4	24	1	48	43	19
TAJR224*025#NJ	R	0.15	25	85	17	125	0.5	4	21	1	51	46	20
TAJR334*025#NJ	R	0.15	25	85	17	125	0.5	4	17	1	57	51	23
TAJR474*025#NJ	R	0.47	25	85	17	125	0.5	4	15	1	61	54	24
TAJS474*025#NJ	S	0.47	25	85	17	125	0.5	4	9	1	85	76	34
TAJR684*025#NJ	R	0.68	25	85	17	125	0.5	4	13	1	65	59	26
TAJS684*025#NJ	S	0.68	25	85	17	125	0.5	4	8	1	90	81	36
TAJP105*025#NJ	P	1	25	85	17	125	0.5	4	11	1	74	66	30
TAJR105*025#NJ	R	1	25	85	17	125	0.5	4	8	1	83	75	33
TAJS105*025#NJ	S	1	25	85	17	125	0.5	4	8	1	90	81	36
TAJP155*025#NJ	P	1.5	25	85	17	125	0.5	6	9.6	1	79	71	32
TAJS155*025#NJ	S	1.5	25	85	17	125	0.5	6	5.4	1	110	99	44
TAJT155*025#NJ	T	1.5	25	85	17	125	0.5	6	5	1	126	114	51
TAJT225*025#NJ	T	2.2	25	85	17	125	0.6	6	4.5	1	133	120	53
TAJT335*025#NJ	T	3.3	25	85	17	125	0.8	6	3.5	1	151	136	60
TAJW335*025#NJ	W	3.3	25	85	17	125	0.8	6	1.6	1	237	213	95
TAJT475*025#NJ	T	4.7	25	85	17	125	1.2	6	3.1	1	161	145	64
TAJW475*025#NJ	W	4.7	25	85	17	125	1.2	6	1.2	1	274	246	110
TAJW685*025#NJ	W	6.8	25	85	17	125	1.7	6	2	1	212	191	85
TAJW106*025#NJ	W	10	25	85	17	125	2.5	6	1.8	1	224	201	89
TAJY156*025#NJ	Y	15	25	85	17	125	3.8	6	1	1 ¹⁾	354	318	141
TAJF226*025#NJ	F	22	25	85	17	125	5.5	6	1	1	316	285	126
TAJY226*025#NJ	Y	22	25	85	17	125	5.5	6	0.8	1 ¹⁾	395	356	158
TAJY336*025#NJ	Y	33	25	85	17	125	8.3	6	0.5	1 ¹⁾	500	450	200
TAJY476*025#NJ	Y	47	25	85	17	125	11.8	6	0.9	1 ¹⁾	373	335	149
35 Volt @ 85°C													
TAJR104*035#NJ	R	0.1	35	85	23	125	0.5	4	29	1	44	39	17
TAJS104*035#NJ	S	0.1	35	85	23	125	0.5	4	24	1	52	47	21
TAJR154*035#NJ	R	0.15	35	85	23	125	0.5	4	24	1	48	43	19
TAJS154*035#NJ	S	0.15	35	85	23	125	0.5	4	21	1	56	50	22
TAJR224*035#NJ	R	0.22	35	85	23	125	0.5	4	21	1	51	46	20
TAJS224*035#NJ	S	0.22	35	85	23	125	0.5	4	18	1	60	54	24
TAJR334*035#NJ	R	0.33	35	85	23	125	0.5	4	17	1	57	51	23
TAJS334*035#NJ	S	0.33	35	85	23	125	0.5	4	15	1	66	59	26
TAJR474*035#NJ	R	0.47	35	85	23	125	0.5	4	15	1	61	54	24
TAJS474*035#NJ	S	0.47	35	85	23	125	0.5	4	12	1	74	66	29
TAJT474*035#NJ	T	0.47	35	85	23	125	0.5	4	10	1	89	80	36
TAJP684*035#NJ	P	0.68	35	85	23	125	0.5	4	13	1	68	61	27
TAJS684*035#NJ	S	0.68	35	85	23	125	0.5	4	8	1	90	81	36
TAJT684*035#NJ	T	0.68	35	85	23	125	0.5	4	8	1	100	90	40
TAJP105*035#NJ	P	1	35	85	23	125	0.5	4	11	1	74	66	30
TAJS105*035#NJ	S	1	35	85	23	125	0.5	4	7.5	1	93	84	37
TAJT105*035#NJ	T	1	35	85	23	125	5	4	6.5	1	111	100	44
TAJT155*035#NJ	T	1.5	35	85	23	125	0.5	6	5.2	1	124	112	50
TAJT225*035#NJ	T	2.2	35	85	23	125	0.8	6	4.2	1	138	124	55
TAJW335*035#NJ	W	3.3	35	85	23	125	1.2	6	1.6	1	237	213	95
TAJW475*035#NJ	W	4.7	35	85	23	125	1.6	6	2.2	1	202	182	81
TAJY685*035#NJ	Y	6.8	35	85	23	125	2.3	6	0.9	1 ¹⁾	373	335	149
TAJX106*035#NJ	X	10	35	85	23	125	3.5	6	0.7	1 ¹⁾	378	340	151
TAJY106*035#NJ	Y	10	35	85	23	125	3.5	6	1	1 ¹⁾	354	318	141
TAJY156*035#NJ	Y	15	35	85	23	125	5.3	6	0.6	1 ¹⁾	456	411	183
TAJY226*035#NJ	Y	22	35	85	23	125	7.7	6	0.5	1 ¹⁾	500	450	200
50 Volt @ 85°C													
TAJS104*050#NJ	S	0.1	50	85	33	125	0.5	4	19	1	58	53	23
TAJS154*050#NJ	S	0.15	50	85	33	125	0.5	4	16	1	64	57	25
TAJP224*050#NJ	P	0.22	50	85	33	125	0.5	4	17	1	59	53	24
TAJR224*050#NJ	R	0.22	50	85	33	125	0.5	4	17	1	57	51	23
TAJS224*050#NJ	S	0.22	50	85	33	125	0.5	4	13	1	71	64	28
TAJP334*050#NJ	P	0.33	50	85	33	125	0.5	4	17	1	59	53	24
TAJR334*050#NJ	R	0.33	50	85	33	125	0.5	4	17	1	57	51	23

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance (μF)	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	DCL Max. (μA)	DF Max. (%)	ESR Max. @ 100kHz (Ω)	MSL	100kHz RMS Current (mA)		
											25°C	85°C	125°C
TAJS334*050#NJ	S	0.33	50	85	33	125	0.5	4	11	1	77	69	31
TAJT334*050#NJ	T	0.33	50	85	33	125	0.5	4	11	1	85	77	34
TAJS474*050#NJ	S	0.47	50	85	33	125	0.5	4	9.5	1	83	74	33
TAJT474*050#NJ	T	0.47	50	85	33	125	0.5	4	9.5	1	92	83	37
TAJW105*050#NJ	W	1	50	85	33	125	0.5	6	4.4	1	143	129	57
TAJW155*050#NJ	W	1.5	50	85	33	125	0.8	6	3.1	1	170	153	68
TAJW225*050#NJ	W	2.2	50	85	33	125	1.1	8	2.5	1	190	171	76
TAJY335*050#NJ	Y	3.3	50	85	33	125	1.7	4	1.5	1 ¹⁾	289	260	115
TAJX475*050#NJ	X	4.7	50	85	33	125	2.4	6	1.0	3	316	285	126
TAJY475*050#NJ	Y	4.7	50	85	33	125	2.4	6	1.2	1 ¹⁾	323	290	129
TAJY685*050#NJ	Y	6.8	50	85	33	125	3.4	6	0.9	1 ¹⁾	373	335	149

1¹⁾ – Dry pack option (see How to order) recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 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, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

For typical weight and composition see page 227.

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

*Initial Limit

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