

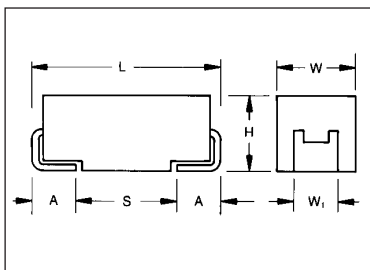


The TAJ standard series encompasses the five key sizes recognized by major OEMs throughout the world. The V case size has been added to the TAJ range to allow high CVs to be offered. The operational temperature is -55°C to

+85°C at rated voltage and up to +125°C with voltage derating in applications utilizing recommended series resistance.

TAJ is available in standard and extended ranges.

CASE DIMENSIONS: millimeters (inches)



Code	EIA Code	W+0.2 (0.008) -0.1 (0.004)	L±0.2 (0.008)	H+0.2 (0.008) -0.1 (0.004)	W _t ±0.2 (0.008)	A+0.3 (0.012) -0.2 (0.008)	S Min.
A	3216	1.6 (0.063)	3.2 (0.126)	1.6 (0.063)	1.2 (0.047)	0.8 (0.031)	1.1 (0.043)
B	3528	2.8 (0.110)	3.5 (0.138)	1.9 (0.075)	2.2 (0.087)	0.8 (0.031)	1.4 (0.055)
C	6032	3.2 (0.126)	6.0 (0.236)	2.6 (0.102)	2.2 (0.087)	1.3 (0.051)	2.9 (0.114)
D	7343	4.3 (0.169)	7.3 (0.287)	2.9 (0.114)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
E	7343H	4.3 (0.169)	7.3 (0.287)	4.1 (0.162)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
V		6.1 (0.240)	7.3 (0.287)	3.45±0.3 (0.136±0.012)	3.1 (0.120)	1.4 (0.055)	3.4 (0.133)

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

HOW TO ORDER

TAJ
Type

C
Case Code
See table above

106
Capacitance Code
pF code: 1st two digits represent significant figures
3rd digit represents multiplier (number of zeros to follow)

M
Tolerance
K=±10%
M=±20%

025
Rated DC Voltage

R
Packaging
Consult page 42 for details

Additional characters may be added for special requirements

TECHNICAL SPECIFICATIONS

Technical Data:		All technical data relate to an ambient temperature of +25°C									
Capacitance Range:		0.1µF to 470µF									
Capacitance Tolerance:		±20%; ±10%									
Rated Voltage (V _R)	≡ +85°C:	2	4	6.3	10	16	20	25	35	50	
Category Voltage (V _C)	≡ +125°C:	1.3	2.7	4	7	10	13	17	23	33	
Surge Voltage (V _S)	≡ +85°C:	2.7	5.2	8	13	20	26	32	46	65	
Surge Voltage (V _S)	≡ +125°C:	1.7	3.2	5	8	12	16	20	28	40	
Temperature Range:		-55°C to +125°C									
Environmental Classification:		55/125/56 (IEC 68-2)									
Reliability		1% per 1000h at 85°C with a 0.1Ω/V series impedance, 60% confidence level									
Qualification		CECC 30801 - 005 issue 1 EIA 535BAAC									

CAPACITANCE AND VOLTAGE RANGE (LETTER DENOTES CASE CODE)

Capacitance		Rated voltage (V _R) at 85°C								
μF	Code	2V	4V	6.3V	10V	16V	20V	25V	35V	50V
0.10	104								A	A
0.15	154								A	A/B
0.22	224								A	A/B
0.33	334								A	B
0.47	474							A	A/B	C
0.68	684						A	A	A/B	C
1.0	105					A				
1.5	155				A	A	A	A	B A	C
2.2	225			A	A	A/B	A/B	B A	B/C	D C
3.3	335			A	A	A/B	A/B	B/C	C B	D
4.7	475		A	A	A/B	B A	B/C A	C B	C/D B	D
6.8	685		A	A/B	A/B	B/C A	B/C	C B	D C	D
10	106		A	A/B	B/C A	B/C A	C B	C/D	D C	E
15	156		B A	B A	B/C A	C B	C/D B	D	D C	
22	226		A	B/C A	C B A	C/D B	D C B	D C	E D	
33	336		A/B	C B A	C/D B	D C B	D C	E D	D	
47	476	A	B A	C/D B	D C B	D C	D C	D	E	
68	686		B/C	C/D B	D C	D C	E D	E		
100	107		B/C	D C B	D C	E D	V D/E			
150	157	B	B	C/D	E D	D/V	E			
220	227		C/D	C/D	E D	V D/E				
330	337	C	E	E	D/E/ V	E				
470	477			E/ V D	E	V				
680	687		D	E	V					
1000	108	D	E							
1500	158	E								

= Standard Range
 = Extended Range
 = Development Range

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance μF	DCL (μA) Max.	DF % Max.	ESR max. (Ω) @ 100 kHz
2 volt @ 85°C (1.2 volt @ 125°C)					
TAJA476*002	A	47	0.9	6	3.0
4 volt @ 85°C (2.5 volt @ 125°C)					
TAJA475*004	A	4.7	0.5	6	7.5
TAJA685*004	A	6.8	0.5	6	6.5
TAJA106*004	A	10	0.5	6	6.0
TAJA156*004	A	15	0.6	6	4.0
TAJB156*004	B	15	0.6	6	3.0
TAJA226*004	A	22	0.9	6	3.5
TAJA336*004	A	33	1.3	6	3.0
TAJB336*004	B	33	1.4	6	2.8
TAJB476*004	B	47	1.9	6	2.4
TAJB686*004	B	68	2.7	6	1.8
TAJC686*004	C	68	2.7	6	1.6
TAJB107*004	B	100	4.0	8	1.6
TAJC107*004	C	100	4.0	6	1.3
TAJC227*004	C	220	8.8	8	1.2
TAJD227*004	D	220	8.8	8	0.9
TAJE337*004	E	330	13.2	8	0.9
6.3 volt @ 85°C (4 volt @ 125°C)					
TAJA225*006	A	2.2	0.5	6	9.0
TAJA335*006	A	3.3	0.5	6	7.0
TAJA475*006	A	4.7	0.5	6	6.0
TAJA685*006	A	6.8	0.5	6	5.0
TAJB685*006	B	6.8	0.5	6	4.0
TAJA106*006	A	10	0.6	6	4.0
TAJB106*006	B	10	0.6	6	3.0
TAJA156*006	A	15	1.0	6	3.5
TAJB156*006	B	15	1.0	6	2.5
TAJA226*006	A	22	1.4	6	3.0
TAJB226*006	B	22	1.4	6	2.5
TAJC226*006	C	22	1.4	6	2.0
TAJB336*006	B	33	2.1	6	2.2
TAJC336*006	C	33	2.1	6	1.8
TAJB476*006	B	47	3.0	6	2.0
TAJC476*006	C	47	3.0	6	1.6
TAJD476*006	D	47	3.0	6	1.1
TAJB686*006	B	68	4.3	8	1.8
TAJC686*006	C	68	4.3	6	1.6
TAJD686*006	D	68	4.3	6	0.9
TAJC107*006	C	100	6.3	6	1.4
TAJD107*006	D	100	6.3	6	0.9
TAJC157*006	C	150	9.5	6	1.3
TAJD157*006	D	150	9.5	6	0.9
TAJC227*006	C	220	13.9	10	1.2
TAJD227*006	D	220	13.9	8	0.9
TAJE337*006	E	330	20.8	8	0.9
TAJE477*006	E	470	29.6	10	0.9
TAJV477*006	V	470	29.6	8	0.9

All technical data relates to an ambient temperature of +25°C measured at 120 Hz, 0.5V RMS unless otherwise stated.

*Insert K for $\pm 10\%$ and M for $\pm 20\%$.

NOTE: We reserve the right to supply higher specification parts in the same case size, to the same reliability standards.

AVX Part No.	Case Size	Capacitance μF	DCL (μA) Max.	DF % Max.	ESR max. (Ω) @ 100 kHz
10 volt @ 85°C (6.3 volt @ 125°C)					
TAJA155*010	A	1.5	0.5	6	10.0
TAJA225*010	A	2.2	0.5	6	7.0
TAJA335*010	A	3.3	0.5	6	5.5
TAJA475*010	A	4.7	0.5	6	5.0
TAJB475*010	B	4.7	0.5	6	4.0
TAJA685*010	A	6.8	0.7	6	4.0
TAJB685*010	B	6.8	0.7	6	3.0
TAJA106*010	A	10	1.0	6	3.0
TAJB106*010	B	10	1.0	6	2.5
TAJC106*010	C	10	1.0	6	2.5
TAJA156*010	A	15	1.5	6	3.2
TAJB156*010	B	15	1.5	6	2.8
TAJC156*010	C	15	1.5	6	2.0
TAJB226*010	B	22	2.2	6	2.4
TAJC226*010	C	22	2.2	6	1.8
TAJB336*010	B	33	3.3	6	2.0
TAJC336*010	C	33	3.3	6	1.6
TAJD336*010	D	33	3.3	6	1.1
TAJC476*010	C	47	4.7	6	1.2
TAJD476*010	D	47	4.7	6	0.9
TAJC686*010	C	68	6.8	6	1.3
TAJD686*010	D	68	6.8	6	0.9
TAJC107*010	C	100	10.0	6	1.2
TAJD107*010	D	100	10.0	6	0.9
TAJD157*010	D	150	15.0	8	0.9
TAJE157*010	E	150	15.0	8	0.9
TAJD227*010	D	220	22.0	8	0.9
TAJE227*010	E	220	22.0	8	0.9
TAJD337*010	D	330	33.0	8	0.9
TAJE337*010	E	330	33.0	8	0.9
TAJV337*010	V	330	33.0	8	0.9
TAJE477*010	E	470	47.0	10	0.9
16 volt @ 85°C (10 volt @ 125°C)					
TAJA105*016	A	1.0	0.5	4	11.0
TAJA155*016	A	1.5	0.5	6	8.0
TAJA225*016	A	2.2	0.5	6	6.5
TAJB225*016	B	2.2	0.5	6	5.5
TAJA335*016	A	3.3	0.5	6	5.0
TAJB335*016	B	3.3	0.5	6	4.5
TAJA475*016	A	4.7	0.8	6	4.0
TAJB475*016	B	4.7	0.8	6	3.5
TAJA685*016	A	6.8	1.1	6	3.5
TAJB685*016	B	6.8	1.1	6	2.5
TAJC685*016	C	6.8	1.1	6	2.5
TAJB106*016	B	10	1.6	6	2.8
TAJC106*016	C	10	1.6	6	2.0
TAJB156*016	B	15	2.4	6	2.5
TAJC156*016	C	15	2.4	6	1.8
TAJB226*016	B	22	3.5	6	2.3
TAJC226*016	C	22	3.5	6	1.6
TAJD226*016	D	22	3.5	6	1.1
TAJC336*016	C	33	5.3	6	1.5
TAJD336*016	D	33	5.3	6	0.9
TAJC476*016	C	47	7.5	6	1.4
TAJD476*016	D	47	7.5	6	0.9
TAJD686*016	D	68	10.8	6	0.9
TAJD107*016	D	100	16.0	6	0.9
TAJE107*016	E	100	16.0	6	0.9
TAJD157*016	D	150	24.0	6	0.9
TAJV157*016	V	150	24.0	8	0.9
TAJV227*016	V	220	35.2	8	0.9

For parametric information on development codes, please contact your local AVX sales office.

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance μF	DCL (μA) Max.	DF % Max.	ESR max. (Ω) @ 100 kHz
20 volt @ 85°C (13 volt @ 125°C)					
TAJA684*020	A	0.68	0.5	4	12.0
TAJA105*020	A	1.0	0.5	4	9.0
TAJA155*020	A	1.5	0.5	6	6.5
TAJA225*020	A	2.2	0.5	6	5.3
TAJB225*020	B	2.2	0.5	6	3.5
TAJA335*020	A	3.3	0.7	6	4.5
TAJB335*020	B	3.3	0.7	6	3.0
TAJA475*020	A	4.7	1.0	6	4.0
TAJB475*020	B	4.7	1.0	6	3.0
TAJC475*020	C	4.7	1.0	6	2.8
TAJB685*020	B	6.8	1.4	6	2.5
TAJC685*020	C	6.8	1.4	6	2.0
TAJB106*020	B	10	2.0	6	2.1
TAJC106*020	C	10	2.0	6	1.9
TAJB156*020	B	15	3.0	6	2.0
TAJC156*020	C	15	3.0	6	2.0
TAJD156*020	D	15	3.0	6	1.1
TAJC226*020	C	22	4.4	6	1.6
TAJD226*020	D	22	4.4	6	0.9
TAJC336*020	C	33	6.6	6	1.5
TAJD336*020	D	33	6.6	6	0.9
TAJD476*020	D	47	9.4	6	0.9
TAJD686*020	D	68	13.6	6	0.9
TAJE686*020	E	68	13.6	6	0.9
TAJV107*020	V	100	20.0	8	0.9
25 volt @ 85°C (16 volt @ 125°C)					
TAJA474*025	A	0.47	0.5	4	14.0
TAJA684*025	A	0.68	0.5	4	10.0
TAJA105*025	A	1.0	0.5	4	8.0
TAJA155*025	A	1.5	0.5	6	7.5
TAJB155*025	B	1.5	0.5	6	5.0
TAJA225*025	A	2.2	0.6	6	7.0
TAJB225*025	B	2.2	0.6	6	4.5
TAJB335*025	B	3.3	0.8	6	3.5
TAJC335*025	C	3.3	0.8	6	2.8
TAJB475*025	B	4.7	1.2	6	2.8
TAJC475*025	C	4.7	1.2	6	2.4
TAJB685*025	B	6.8	1.7	6	2.8
TAJC685*025	C	6.8	1.7	6	2.0
TAJC106*025	C	10	2.5	6	1.8
TAJD106*025	D	10	2.5	6	1.2
TAJD156*025	D	15	3.8	6	1.0
TAJC226*025	C	22	5.5	6	1.4
TAJD226*025	D	22	5.5	6	0.9
TAJD336*025	D	33	8.3	6	0.9
TAJE336*025	E	33	8.3	6	0.9
TAJD476*025	D	47	11.8	6	0.9

AVX Part No.	Case Size	Capacitance μF	DCL (μA) Max.	DF % Max.	ESR max. (Ω) @ 100 kHz
35 volt @ 85°C (23 volt @ 125°C)					
TAJA104*035	A	0.1	0.5	4	24.0
TAJA154*035	A	0.15	0.5	4	21.0
TAJA224*035	A	0.22	0.5	4	18.0
TAJA334*035	A	0.33	0.5	4	15.0
TAJA474*035	A	0.47	0.5	4	12.0
TAJB474*035	B	0.47	0.5	4	10.0
TAJA684*035	A	0.68	0.5	4	8.0
TAJB684*035	B	0.68	0.5	4	8.0
TAJA105*035	A	1.0	0.5	4	7.5
TAJB105*035	B	1.0	0.5	4	6.5
TAJA155*035	A	1.5	0.5	6	7.5
TAJB155*035	B	1.5	0.5	6	5.2
TAJC155*035	C	1.5	0.5	6	4.5
TAJB225*035	B	2.2	0.8	6	4.2
TAJC225*035	C	2.2	0.8	6	3.5
TAJB335*035	B	3.3	1.2	6	3.5
TAJC335*035	C	3.3	1.2	6	2.5
TAJB475*035	B	4.7	1.6	6	3.1
TAJC475*035	C	4.7	1.6	6	2.2
TAJD475*035	D	4.7	1.6	6	1.5
TAJC685*035	C	6.8	2.4	6	1.8
TAJD685*035	D	6.8	2.4	6	1.3
TAJC106*035	C	10.0	3.5	6	1.6
TAJD106*035	D	10.0	3.5	6	1.0
TAJC156*035	C	15.0	5.3	6	1.4
TAJD156*035	D	15.0	5.3	6	0.9
TAJD226*035	D	22.0	7.7	6	0.9
TAJE226*035	E	22.0	7.7	6	0.9
TAJD336*035	D	33.0	11.6	6	0.9
50 volt @ 85°C (33 volt @ 125°C)					
TAJA104*050	A	0.1	0.5	4	22.0
TAJA154*050	A	0.15	0.5	4	15.0
TAJB154*050	B	0.15	0.5	4	17.0
TAJA224*050	A	0.22	0.5	4	18.0
TAJB224*050	B	0.22	0.5	4	14.0
TAJB334*050	B	0.33	0.5	4	12.0
TAJC474*050	C	0.47	0.5	4	8.0
TAJC684*050	C	0.68	0.5	4	7.0
TAJC105*050	C	1.0	0.5	4	5.5
TAJC155*050	C	1.5	0.8	6	4.5
TAJD155*050	D	1.5	0.8	6	4.0
TAJD225*050	D	2.2	1.1	6	2.5
TAJD335*050	D	3.3	1.7	6	2.0
TAJD475*050	D	4.7	2.4	6	1.4
TAJD685*050	D	6.8	3.4	6	1.0
TAJE106*050	E	10.0	5.0	8	0.9

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*Insert K for $\pm 10\%$ and M for $\pm 20\%$.

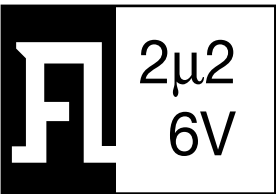
NOTE: We reserve the right to supply higher specification parts in the same case size, to the same reliability standards.

MARKING: TAJ SERIES

For TAJ, the positive end of body has videcon readable polarity bar marking, with the AVX logo “A” as shown in the diagram. Bodies are marked by indelible laser marking on top surface with capacitance value, voltage and date of manufacture. Due to the small size of the A, B, S and T cases, a voltage code is used as shown to the right. R case is an exception in which only the voltage and capacitance values are printed.

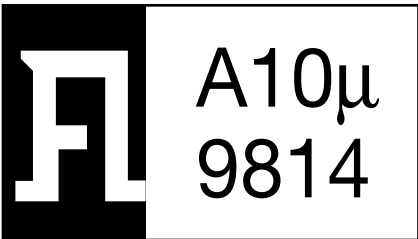
Voltage Code A, B, S and T Cases	Rated Voltage at 85°C
F	2
G	4
J	6.3
A	10
C	16
D	20
E	25
V	35
T	50

POLARITY BAR INDICATES ANODE (+) TERMINATION



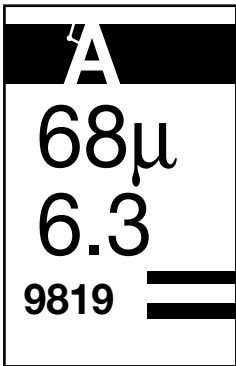
R Case:

1. Voltage
2. Capacitance in μF



A, B, S and T Case:

1. Voltage Code
(see table)
2. Capacitance in μF
3. Date Code



C, D, E and V Case:

1. Capacitance in μF
2. Rated Voltage at 85°C
3. Date Code

TAC, TAJ & TPS Series



Tape and Reel Packaging

Tape and reel packaging for automatic component placement.
Please enter required Suffix on order. Bulk product is not available.

TAC, TAJ AND TPS TAPING SUFFIX TABLE

Case Size reference	Tape width mm	P mm	103mm (4") reel Suffix	(4") reel Qty.	180mm (7") reel Suffix	(7") reel Qty.	330mm (13") reel
A	8	4			R	2000	S 8000
B	8	4			R	2000	S 8000
C	12	8			R	500	S 3000
D	12	8			R	500	S 2500
E	12	8			R	400	S 1500
V	12	8			R	400	S 1500
R	8	4			R	2500	S 10000
S	8	4			R	2500	S 10000
T	8	4			R	2500	S 10000
TACL	8	4	X	500	R	3500	
TACR	8	4	X	500	R	2500	

Total Tape Thickness — K max			
TAC/TAJ/TPS			
Case size reference	K	Ao	Bo
A	2.3 (0.090)	1.9	3.5
B	2.6 (0.102)	3.1	3.8
C	3.3 (0.130)	3.7	6.9
D	3.6 (0.142)	4.8	7.6
E	4.8 (0.189)	4.5	7.5
V	4.0 (0.156)	6.4	7.6
R	1.9 (0.075)	1.7	2.5
S	1.9 (0.075)	1.9	3.5
T	1.9 (0.075)	3.1	3.8
L	1.1 (0.043)	1.1	2.0

PLASTIC TAPE DIMENSIONS

Code	8mm Tape		12mm Tape	
P*	4±0.1 or 8±0.1	(0.157±0.004) (0.315±0.004)	4±0.1 or 8±0.1	(0.157±0.004) (0.315±0.004)
G	0.75 min	(0.03 min)	0.75 min	(0.03 min)
F	3.5±0.05	(0.138±0.002)	5.5±0.05	(0.22±0.002)
E	1.75±0.1	(0.069±0.004)	1.75±0.1	(0.069±0.004)
W	8±0.3	(0.315±0.012)	12±0.3	(0.472±0.012)
P ₂	2±0.05	(0.079±0.002)	2±0.05	(0.079±0.002)
P ₀	4±0.1	(0.157±0.004)	4±0.1	(0.157±0.004)
D	1.5±0.1 -0	(0.059±0.004) (-0)	1.5±0.1 -0	(0.059±0.004) (-0)
D ₁	1.0 min	(0.039 min)	1.5 min	(0.059 min)

*See taping suffix tables for actual P dimension (component pitch).

TAPE SPECIFICATION

Tape dimensions comply to EIA RS 481 A

Dimensions A₀ and B₀ of the pocket and the tape thickness, K, are dependent on the component size.

Tape materials do not affect component solderability during storage. Carrier Tape Thickness <0.4mm

Standard Dimensions mm

A: 9.5mm (8mm tape)
13.0mm (12mm tape)

Cover Tape Dimensions

Thickness: 75±25μ
Width of tape:
5.5mm + 0.2mm (8mm tape)
9.5mm + 0.2mm (12mm tape)

