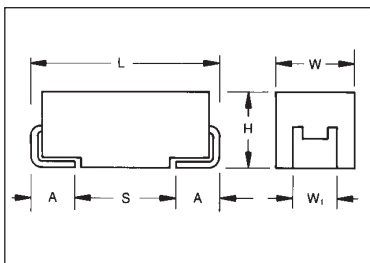




The TAJ standard series encompasses the five key sizes recognized by major OEMs throughout the world. The V case size has been added to the TAJ range to allow high CVs to be offered. The

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.

CASE DIMENSIONS: millimeters (inches)



For part marking see page 50

Code	EIA Code	L±0.2 (0.008)	W+0.2 (0.008) -0.1 (0.004)	H+0.2 (0.008) -0.1 (0.004)	W ₁ ±0.2 (0.008)	A+0.3 (0.012) -0.2 (0.008)	S Min.
A	3216	3.2 (0.126)	1.6 (0.063)	1.6 (0.063)	1.2 (0.047)	0.8 (0.031)	1.1 (0.043)
B	3528	3.5 (0.138)	2.8 (0.110)	1.9 (0.075)	2.2 (0.087)	0.8 (0.031)	1.4 (0.055)
C	6032	6.0 (0.236)	3.2 (0.126)	2.6 (0.102)	2.2 (0.087)	1.3 (0.051)	2.9 (0.114)
D	7343	7.3 (0.287)	4.3 (0.169)	2.9 (0.114)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
E	7343H	7.3 (0.287)	4.3 (0.169)	4.1 (0.162)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
V	7361	7.3 (0.287)	6.1 (0.240)	3.45±0.3 (0.136±0.012)	3.1 (0.120)	1.4 (0.055)	4.4 (0.173)

W₁ 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%

035

Rated DC Voltage
002=2Vdc
004=4Vdc
006=6.3Vdc
010=10Vdc
016=16Vdc
020=20Vdc
025=25Vdc
035=35Vdc
050=50Vdc

R

Packaging
See Tape and Reel Packaging
R=7" T/R
S=13" T/R
(see page 49)

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 680µF

Capacitance Tolerance:

±10%; ±20%

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

Reliability:

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

Qualification

CECC 30801 - 005 issue 2
EIA 535BAAC

CAPACITANCE AND RATED VOLTAGE, V_R (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

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

● = In Development

○ = Non Preferred code – AVX reserves the right to supply higher rated voltage parts in the same case size.

RATINGS & PART NUMBER REFERENCE

AVX Part No.	Case Size	Capacitance μF	DCL (μA) Max.	DF % Max.	ESR max. (Ω) @ 100 kHz
Voltage/Code 2 volt @ 85°C (1.2 volt @ 125°C) / F					
TAJA476*002#	A	47	0.9	6	3.0
TAJB157*002#	B	150	3.0	10	1.6
Voltage/Code 4 volt @ 85°C (2.5 volt @ 125°C) / G					
‡ 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	1.3	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
‡ TAJE687M004#	E	680	27.2	14	0.9
Voltage/Code 6.3 volt @ 85°C (4 volt @ 125°C) / J					
‡ 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
‡ TAJA336*006#	A	33	2.1	8	2.5
‡ 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	1.5
‡ TAJD686*006#	D	68	4.3	6	0.9
‡ TAJC107*006#	C	100	6.3	6	0.9
‡ 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	8	1.2
‡ TAJD227*006#	D	220	13.9	8	0.9
‡ TAJE337*006#	E	330	20.8	8	0.9
‡ TAJD477M006#	D	470	29.6	12	0.9
‡ TAJE477M006#	E	470	29.6	10	0.9
‡ TAJV477*006#	V	470	29.6	10	0.9
‡ TAJE687M006#	E	680	42.8	10	0.5

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.

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

#Insert R for 7" Reel, S for 13" Reel

‡ Non preferred - AVX reserves the right to supply a higher rated voltage in the same case size.

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.

AVX Part No.	Case Size	Capacitance μF	DCL (μA) Max.	DF % Max.	ESR max. (Ω) @ 100 kHz
Voltage/Code 10 volt @ 85°C (6.3 volt @ 125°C) / A					
‡ 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	1.8
‡ TAJC336*010#	C	33	3.3	6	1.6
‡ TAJD336*010#	D	33	3.3	6	1.1
‡ TAJB476*010#	B	47	4.7	8	1.6
‡ TAJC476*010#	C	47	4.7	6	1.4
‡ 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	8	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
‡ TAJD337M010#	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
‡ TAJE477M010#	E	470	47.0	10	0.9
‡ TAJV477*010#	V	470	47.0	10	0.9
Voltage/Code 16 volt @ 85°C (10 volt @ 125°C) / 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
‡ TAJA106*016#	A	10	1.6	8	3.0
‡ TAJB106*016#	B	10	1.6	6	2.8
‡ TAJC106*016#	C	10	1.6	8	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	10.9	6	0.9
‡ TAJD107*016#	D	100	16.0	6	0.9
‡ TAJE107*016#	E	100	16.0	6	0.9
‡ TAJD157M016#	D	150	24.0	6	0.9
‡ TAJE227M016#	E	220	35.2	10	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
Voltage/Code 20 volt @ 85°C (13 volt @ 125°C) / D					
‡ TAJA684M020#	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	0.9	6	4.0
TAJB475*020#	B	4.7	0.9	6	3.0
‡ TAJC475*020#	C	4.7	0.9	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	1.7
‡ TAJD156*020#	D	15	3.0	6	1.1
TAJB226*020#	B	22	4.4	6	1.8
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
TAJE107M020#	E	100	20.0	6	0.9
TAJV107*020#	V	100	20.0	8	0.9
Voltage/Code 25 volt @ 85°C (16 volt @ 125°C) / E					
TAJA474M025#	A	0.47	0.5	4	14.0
TAJA684M025#	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
TAJC156*025#	C	15	3.8	6	1.6
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
TAJD336M025#	D	33	8.3	6	0.9
TAJE336*025#	E	33	8.3	6	0.9
TAJD476M025#	D	47	11.8	6	0.9
TAJE686M025#	E	68	17	6	0.9
TAJV686*025#	V	68	17	6	0.9

AVX Part No.	Case Size	Capacitance μF	DCL (μA) Max.	DF % Max.	ESR max. (Ω) @ 100 kHz
Voltage/Code 35 volt @ 85°C (23 volt @ 125°C) / V					
‡ TAJA104M035#	A	0.1	0.5	4	24.0
‡ TAJA154M035#	A	0.15	0.5	4	21.0
‡ TAJA224M035#	A	0.22	0.5	4	18.0
‡ TAJA334M035#	A	0.33	0.5	4	15.0
‡ TAJA474M035#	A	0.47	0.5	4	12.0
‡ TAJB474M035#	B	0.47	0.5	4	10.0
‡ TAJA684M035#	A	0.68	0.5	4	8.0
‡ TAJB684M035#	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
TAJD336M035#	D	33.0	11.6	6	0.9
TAJE476M035#	E	47.0	16.5	6	0.9
Voltage/Code 50 volt @ 85°C (33 volt @ 125°C) / T					
‡ TAJA104M050#	A	0.1	0.5	4	22.0
‡ TAJA154M050#	A	0.15	0.5	4	15.0
‡ TAJB154M050#	B	0.15	0.5	4	17.0
‡ TAJA224M050#	A	0.22	0.5	4	18.0
‡ TAJB224M050#	B	0.22	0.5	4	14.0
‡ TAJB334M050#	B	0.33	0.5	4	12.0
‡ TAJC474M050#	C	0.47	0.5	4	8.0
‡ TAJC684M050#	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

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

#Insert R for 7" Reel, S for 13" Reel

‡ Non preferred - AVX reserves the right to supply a higher rated voltage in the same case size.

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.

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

#Insert R for 7" Reel, S for 13" Reel

‡ Non preferred - AVX reserves the right to supply a higher rated voltage in the same case size.

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.