SMT Aluminum Electrolytic Capacitors - General Purpose, 85°C

General Purpose Filtering, Bypassing, Power Supply Decoupling



Type AVS Capacitors are the best value for filter and bypass applications not requiring wide temperature performance or high ripple current. Their vertical cylindrical cases facilitate automatic mounting and reflow soldering and Type AVS offers a significant cost savings over tantalum capacitors.

Highlights -

• +85°C, 2000 Hour Load Life

 Capacitance Range: 0.1 µF to 1500 µF Voltage Range: 4.0 Vdc to 100 Vdc

Specifications

Operating Temperature: -40°C to +85°C

> Rated voltage: 4.0, 6.3, 10, 16, 25, 35, 63, & 100 Vdc

Capacitance: $0.1 \, \mu F$ to 1500 μF See Ratings Table D.F. (@ 20° C):

±20% @ 120 Hz and +20°C **Capacitance Tolerance:**

0.01 CV or 3 μA @ +20°C, after two minutes (whichever is greater) **Leakage Current:**

Frequency **Ripple Current Multipliers:**

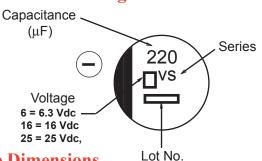
50/60 Hz	120 Hz	1 kHz	10 kHz & up		
0.7	1.0	1.3	1.7		

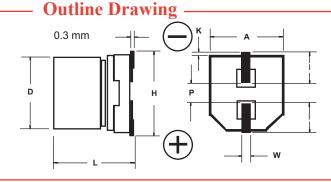
Load Life: 2000 h @ 85°C Shelf Life: 1000 h @ 85°C

> △ Capacitance: ±20% △ Capacitance: ±20% DF: <200% of limit DF: <200% of limit DCL: <100% of limit DCL: <100% of limit

	Maximum Impedance Ratio @ 120 Hz									
W.V. (Vdc)	4.0	6.3	10.0	16.0	25.0	35.0	50.0	63.0	100.0	
-25°C / +20°C	7.0	4.0	3.0	2.0	2.0	2.0	2.0	3.0	3.0	
-40°C / +20°C	15.0	8.0	6.0	4.0	4.0	3.0	3.0	4.0	4.0	

AVS Series Marking -





Case Dimensions

Case Code	D ± 0.5	L	A ± 0.2	H (max)	l (ref)	w	P (ref)	K
Α	3	5.4 +.1,2	3.3	4.5	1.5	0.55 ± 0.1	0.6	0.35 + 0.15/-0.20
В	4	5.4 +.1,2	4.3	5.5	1.8	0.65 ± 0.1	1.0	0.35 + 0.15/-0.20
С	5	5.4 +.1,2	5.3	6.5	2.2	0.65 ± 0.1	1.5	0.35 + 0.15/-0.20
D	6.3	5.4 +.1,2	6.6	7.8	2.6	0.65 ± 0.1	1.8	0.35 + 0.15/-0.20
X	6.3	7.9 ±.3	6.6	7.8	2.6	0.65 ± 0.1	1.8	0.35 + 0.15/-0.20
E	8	6.2 ±.3	8.3	9.5	3.4	0.65 ± 0.1	2.2	0.35 + 0.15/-0.20
F	8	10.2 ±.3	8.3	10.0	3.4	0.90 ± 0.2	3.1	0.70 ± 0.20
G	10	10.2 ±.3	10.3	12.0	3.5	0.90 ± 0.2	4.6	0.70 ± 0.20

Type AVS

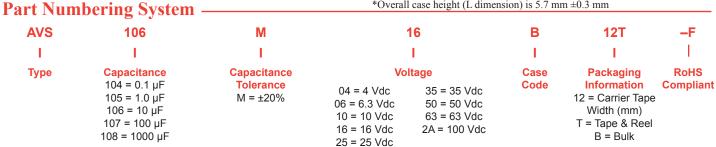
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Ratings

			Max.	Max.	Max.			
Сар	Catalog	Max . DCL	Dissipation Factor @	ESR @ 120 Hz/20 °C	Ripple Current 120 Hz/85 °C	Case	Size D x L	Quantity
(μF)	Part Number	(µA)	120 Hz	(Ohms)	(mA)	Code	(mm)	per Reel
	A) (0000N40 4A 40T			(5 Vdc Surge)	10			2000
22	AVS226M04A12T	3.0	0.37 0.35	27.9	19 26	A	3 x 5.4	2000
33 47	AVS336M04B12T AVS476M04B12T	3.0 3.0	0.35	17.6 12.3	26 34	B B	4 x 5.4 4 x 5.4	2000 2000
100	AVS107M04C12T	4.0	0.35	5.8	61	С	5 x 5.4	1000
220	AVS227M04D16T	8.8	0.35	2.6	82	D	6.3 x 5.4	1000
			6.3 Vdc	(8 Vdc Surge)				
22	AVS226M06A12T	3.0	0.35	26.4	20	Α	3 x 5.4	2000
22	AVS226M06B12T	3.0	0.26	19.6	29	В	4 x 5.4	2000
33	AVS336M06B12T	3.0	0.35	17.6	29	В	4 x 5.4	2000
47	AVS476M06B12T	3.0	0.35	12.3	36	В	4 x 5.4	2000
100	AVS476M06C12T AVS107M06C12T	3.0 6.3	0.26 0.35	9.2 5.8	46 47	C	5 x 5.4 5 x 5.4	1000
100	AVS107M06C12T	6.3	0.26	4.3	71	D	6.3 x 5.4	1000
220	AVS227M06D16T	13.9	0.35	2.6	74	D	6.3 x 5.4	1000
330	AVS337M06X16T	20.8	0.26	1.3	150	X	6.3 x 7.9	900
330	AVS337M06E16T	20.8	0.35	1.8	300	Е	8 x 6.2	1000
470	AVS477M06F24T	29.6	0.35	1.2	380	F	8 x 10.2	500
1000	AVS108M06F24T	63.0	0.35	0.6	500	F	8 x 10.2	500
1000	AVS108M06G24T	63.0	0.35	0.6	700	G	10 x 10.2	500
1500	AVS158M06G24T	94.5	0.35	0.4	700	G	10 x 10.2	500
22	AV/\$226M40D42T	2.0		(13 Vdc Surge)	20	В	4 v E 4	2000
33	AVS226M10B12T AVS336M10B12T	3.0 3.3	0.3 0.3	22.6 15.1	28 29	B B	4 x 5.4 4 x 5.4	2000 2000
33	AVS336M10C12T	3.3	0.2	10.1	43	С	5 x 5.4	1000
47	AVS476M10C12T	4.7	0.2	10.1	43	C	5 x 5.4	1000
100	AVS107M10C12T	10.0	0.3	5.0	50	C	5 x 5.4	1000
100	AVS107M10D16T	10.0	0.2	3.3	70	D	6.3 x 5.4	1000
220	AVS227M10X16T	22.0	0.2	1.5	150	X	6.3 x 7.9	900
220	AVS227M10E16T	22.0	0.26	2.0	250	E	8 x 6.2	1000
330	AVS337M10F24T	33.0	0.26	1.3	330	F	8 x 10.2	500
470	AVS477M10F24T	47.0	0.26	0.9	330	F	8 x 10.2	500
470 1000	AVS477M10G24T AVS108M10G24T	47.0 100.0	0.26 0.26	0.9 0.4	400 580	G G	10 x 10.2 10 x 10.2	500 500
1000	AVS 100W10G241	100.0		(20 Vdc Surge)	360	- 6	10 X 10.2	500
10	AVS106M16A12T	3.0	0.18	29.9	20	A	3 x 5.4	2000
10	AVS106M16B12T	3.0	0.16	26.5	28	В	4 x 5.4	2000
22	AVS226M16B12T	3.5	0.26	19.6	28	В	4 x 5.4	2000
22	AVS226M16C12T	3.5	0.16	12.1	39	С	5 x 5.4	1000
33	AVS336M16C12T	5.3	0.26	13.1	35	С	5 x 5.4	1000
47	AVS476M16C12T	7.5	0.26	9.2	39	С	5 x 5.4	1000
47	AVS476M16D16T	7.5	0.16	5.6	70	D	6.3 x 5.4	1000
100	AVS107M16D16T	16.0	0.26	4.3	70	D	6.3 x 5.4	1000
100 220	AVS107M16E16T AVS227M16X16T	16.0 35.2	0.2 0.16	3.3 1.2	200 150	E X	8 x 6.2 6.3 x 7.9	1000 900
220	AVS227M16E16T	35.2	0.16	1.5	200	^	8 x 6.2	1000
220	AVS227M16F24T	35.2	0.2	1.5	280	F	8 x 10.2	500
330	AVS337M16F24T	52.8	0.2	1.0	320	F	8 x 10.2	500
330	AVS337M16G24T	52.8	0.2	1.0	380	G	10 x 10.2	500
470	AVS477M16F24T	75.2	0.2	0.7	320	F	8 x 10.2	500
470	AVS477M16G24T	75.2	0.2	0.7	420	G	10 x 10.2	500
	A) /O / 751 405 1 107			(31 Vdc Surge)	40		0.5:	0000
4.7	AVS475M25A12T	3.0	0.16	56.5	12	A	3 x 5.4	2000
4.7 10	AVS475M25B12T AVS106M25B12T	3.0 3.0	0.14 0.2	49.4 33.2	22 22	B B	4 x 5.4 4 x 5.4	2000 2000
10	AVS106M25B12T AVS106M25C12T	3.0	0.2	33.2 23.2	28	С	4 x 5.4 5 x 5.4	1000
22	AVS226M25C12T	5.5	0.14	15.1	35	C	5 x 5.4	1000
22	AVS226M25D16T	5.5	0.14	10.6	55	D	6.3 x 5.4	1000
33	AVS336M25C12T	8.3	0.2	10.0	42	С	5 x 5.4	1000
33	AVS336M25D16T	8.3	0.14	7.0	65	D	6.3 x 5.4	1000
47	AVS476M25D16T	11.8	0.2	7.1	70	D	6.3 x 5.4	1000
100	AVS107M25X16T	25.0	0.14	2.3	150	X	6.3 x 7.9	900
100	AVS107M25E16T	25.0	0.16	2.7	91	E	8 x 6.2	1000
100	AVS107M25F24T	25.0 55.0	0.16 0.16	2.7	180 140	F F	8 x 10.2	500 500
220 220	AVS227M25F24T AVS227M25G24T	55.0 55.0	0.16	1.2 1.2	140 310	F G	8 x 10.2 10 x 10.2	500 500
330	AVS337M25F24T	82.5	0.16	0.8	150	F	8 x 10.2	500
330	AVS337M25G24T	82.5	0.16	0.8	340	G	10 x 10.2	500
470	AVS477M25G24T	117.5	0.16	0.6	360	G	10 x 10.2	500

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		Max.	Dissipation	ESR @	Ripple Current		Size	
Сар	Catalog	DCL	Factor @	120 Hz/20 °C	120 Hz/85 °C	Case	DxL	Quantit
(μ F)	Part Number	(μ A)	120 Hz	(Ohms)	(mA)	Code	(mm)	per Ree
			35 Vd	lc (44 Vdc Surge)				
2.2	AVS225M35A12T	3.0	0.14	105.6	8	А	3 x 5.4	2000
3.3	AVS335M35A12T	3.0	0.14	70.4	10	Α	3 x 5.4	2000
4.7	AVS475M35B12T	3.0	0.12	42.4	22	В	4 x 5.4	2000
10	AVS106M35B12T	3.5	0.16	26.5	22	В	4 x 5.4	2000
10	AVS106M35C12T	3.5	0.12	19.9	30	С	5 x 5.4	1000
22	AVS226M35C12T	7.7	0.16	12.1	36	С	5 x 5.4	1000
22	AVS226M35D16T	7.7	0.12	9.1	60	D	6.3 x 5.4	1000
33	AVS336M35D16T	11.6	0.16	8.0	60	D	6.3 x 5.4	1000
33	AVS336M35E16T	11.6	0.14	7.0	130	E	8 x 6.2	1000
47	AVS476M35D16T	16.5	0.16	5.6	70	D	6.3 x 5.4	1000
47	AVS476M35E16T	16.5	0.14	4.9	165	E	8 x 6.2	1000
100	AVS107M35X16T	35.0	0.12	2.0	130	Χ	6.3 x 7.9	900
100	AVS107M35F24T	35.0	0.14	2.3	140	F	8 x 10.2	500
100	AVS107M35G24T	35.0	0.14	2.3	210	G	10 x 10.2	500
220	AVS227M35F24T	77.0	0.14	1.1	200	F	8 x 10.2	500
220	AVS227M35G24T	77.0	0.14	1.1	310	G	10 x 10.2	500
330	AVS337M35G24T	115.5	0.14	0.7	320	G	10 x 10.2	500
			50 Vd	lc (63 Vdc Surge)				
0.1	AVS104M50A12T	3.0	0.14	2322.0	1	Α	3 x 5.4	2000
0.1	AVS104M50B12T	3.0	0.12	1990.0	1	В	4 x 5.4	2000
0.22	AVS224M50A12T	3.0	0.14	1055.0	2	Α	3 x 5.4	2000
0.22	AVS224M50B12T	3.0	0.12	905.0	2	В	4 x 5.4	2000
0.33	AVS334M50A12T	3.0	0.14	704.0	3	Α	3 x 5.4	2000
0.33	AVS334M50B12T	3.0	0.12	603.0	3	В	4 x 5.4	2000
0.47	AVS474M50A12T	3.0	0.14	494.0	5	Α	3 x 5.4	2000
0.47	AVS474M50B12T	3.0	0.12	424.0	5	В	4 x 5.4	2000
1	AVS105M50A12T	3.0	0.14	232.0	8	Α	3 x 5.4	2000
1	AVS105M50B12T	3.0	0.12	199.0	10	В	4 x 5.4	2000
2.2	AVS225M50A12T	3.0	0.14	106.0	10	А	3 x 5.4	2000
2.2	AVS225M50B12T	3.0	0.12	90.5	16	В	4 x 5.4	2000
3.3	AVS335M50B12T	3.0	0.12	60.3	16	В	4 x 5.4	2000
4.7	AVS475M50B12T	3.0	0.14	49.4	18	В	4 x 5.4	2000
4.7	AVS475M50C12T	3.0	0.12	42.4	23	С	5 x 5.4	1000
10	AVS106M50C12T	5.0	0.14	23.2	27	С	5 x 5.4	1000
10	AVS106M50D16T	5.0	0.12	19.9	35	D	6.3 x 5.4	1000
22	AVS226M50D16T	11.0	0.14	10.6	60	D	6.3 x 5.4	1000
22	AVS226M50E16T	11.0	0.12	9.1	120	Ε	8 x 6.2	1000
33	AVS336M50X16T	16.5	0.12	6.0	85	Χ	6.3 x 7.9	900
33	AVS336M50E16T	16.5	0.12	6.0	130	E	8 x 6.2	1000
33	AVS336M50F24T	16.5	0.12	6.0	140	F	8 x 10.2	500
47	AVS476M50X16T	23.5	0.12	4.2	90	X	6.3 x 7.9	900
47	AVS476M50F24T	23.5	0.12	4.2	150	F	8 x 10.2	500
47	AVS476M50G24T	23.5	0.12	4.2	160	G	10 x 10.2	500
100	AVS107M50F24T	50.0	0.12	2.0	200	F	8 x 10.2	500
100	AVS107M50G24T	50.0	0.12	2.0	250	G	10 x 10.2	500
220	AVS227M50G24T	110.0	0.12	0.9	300	G	10 x 10.2	500
				lc (75 Vdc Surge)				
10	AVS106M63D16T	6.3	0.18	29.9	35	D*	6.3 x 5.7	1000
22	AVS226M63E16T	13.9	0.18	13.6	40	E	8 x 6.2	1000
22	AVS226M63F24T	13.9	0.18	13.6	40	F	8 x 10.2	500
33	AVS336M63F24T	20.8	0.18	9.1	45	F	8 x 10.2	500
47	AVS476M63F24T	29.6	0.18	6.4	45	F	8 x 10.2	500
100	AVS107M63G24T	63.0	0.18	3.0	60	G	10 x 10.2	500
				(125 Vdc Surge)	-	-		
3.3	AVS335M2AE16T	3.3	0.18	90.4	50	Е	8 x 6.2	1000
4.7	AVS475M2AE16T	4.7	0.18	63.5	50	E	8 x 6.2	1000
4.7	AVS475M2AF24T	4.7	0.18	63.5	80	F	8 x 10.2	500
10	AVS106M2AE16T	10.0	0.18	29.8	50	E.	8 x 6.2	1000
10	AVS106M2AF24T	10.0	0.18	29.8	85	F	8 x 10.2	500
22					70	<u>'</u> 		500
44	AVS226M2AF24T	22.0	0.18	13.6 13.6	90	F G	8 x 10.2 10 x 10.2	500
22								
22 33	AVS226M2AG24T AVS336M2AG24T	22.0 33.0	0.18 0.18	8.0	90	G	10 x 10.2	500



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Typical Performance Curves

