

Type AVS

SMT Aluminum Electrolytic Capacitors - General Purpose, 85°C

Ratings

Cap (µF)	CaT-Fallog ParT-F Number	Max. DCL (µA)	Max. Dissipation Factor @ 120 Hz	Max. ESR @ 120 Hz/20 °C (Ohms)	Max. Ripple Current 120 Hz/85 °C (mA)	Case Code	Size D x L (mm)	Quantity per Reel
4 Vdc (5 Vdc Surge)								
22	AVS226M04A12T-F*	3.0	0.37	27.9	19	A	3 x 5.4	2000
33	AVS336M04B12T-F	3.0	0.35	17.6	26	B	4 x 5.4	2000
47	AVS476M04B12T-F	3.0	0.35	12.3	34	B	4 x 5.4	2000
100	AVS107M04C12T-F	4.0	0.35	5.8	61	C	5 x 5.4	1000
220	AVS227M04D16T-F	8.8	0.35	2.6	82	D	6.3 x 5.4	1000
6.3 Vdc (8 Vdc Surge)								
22	AVS226M06A12T-F*	3.0	0.35	26.4	20	A	3 x 5.4	2000
22	AVS226M06B12T-F	3.0	0.26	19.6	29	B	4 x 5.4	2000
33	AVS336M06B12T-F	3.0	0.35	17.6	29	B	4 x 5.4	2000
47	AVS476M06B12T-F	3.0	0.35	12.3	36	B	4 x 5.4	2000
47	AVS476M06C12T-F	3.0	0.26	9.2	46	C	5 x 5.4	1000
100	AVS107M06C12T-F	6.3	0.35	5.8	47	C	5 x 5.4	1000
100	AVS107M06D16T-F	6.3	0.26	4.3	71	D	6.3 x 5.4	1000
220	AVS227M06D16T-F	13.9	0.35	2.6	74	D	6.3 x 5.4	1000
330	AVS337M06X16T-F	20.8	0.26	1.3	150	X	6.3 x 7.9	900
330	AVS337M06E16T-F	20.8	0.35	1.8	300	E	8 x 6.2	1000
470	AVS477M06F24T-F	29.6	0.35	1.2	380	F	8 x 10.2	500
1000	AVS108M06F24T-F	63.0	0.35	0.6	500	F	8 x 10.2	500
1000	AVS108M06G24T-F	63.0	0.35	0.6	700	G	10 x 10.2	500
1500	AVS158M06G24T-F	94.5	0.35	0.4	700	G	10 x 10.2	500
10 Vdc (13 Vdc Surge)								
22	AVS226M10B12T-F	3.0	0.3	22.6	28	B	4 x 5.4	2000
33	AVS336M10B12T-F	3.3	0.3	15.1	29	B	4 x 5.4	2000
33	AVS336M10C12T-F	3.3	0.2	10.1	43	C	5 x 5.4	1000
47	AVS476M10C12T-F	4.7	0.3	10.6	43	C	5 x 5.4	1000
100	AVS107M10C12T-F	10.0	0.3	5.0	50	C	5 x 5.4	1000
100	AVS107M10D16T-F	10.0	0.2	3.3	70	D	6.3 x 5.4	1000
220	AVS227M10X16T-F	22.0	0.2	1.5	150	X	6.3 x 7.9	900
220	AVS227M10E16T-F	22.0	0.26	2.0	250	E	8 x 6.2	1000
330	AVS337M10F24T-F	33.0	0.26	1.3	330	F	8 x 10.2	500
470	AVS477M10F24T-F	47.0	0.26	0.9	330	F	8 x 10.2	500
470	AVS477M10G24T-F	47.0	0.26	0.9	400	G	10 x 10.2	500
1000	AVS108M10G24T-F	100.0	0.26	0.4	580	G	10 x 10.2	500
16 Vdc (20 Vdc Surge)								
10	AVS106M16A12T-F*	3.0	0.18	29.9	20	A	3 x 5.4	2000
10	AVS106M16B12T-F	3.0	0.16	26.5	28	B	4 x 5.4	2000
22	AVS226M16B12T-F	3.5	0.26	19.6	28	B	4 x 5.4	2000
22	AVS226M16C12T-F	3.5	0.16	12.1	39	C	5 x 5.4	1000
33	AVS336M16C12T-F	5.3	0.26	13.1	35	C	5 x 5.4	1000
47	AVS476M16C12T-F	7.5	0.26	9.2	39	C	5 x 5.4	1000
47	AVS476M16D16T-F	7.5	0.16	5.6	70	D	6.3 x 5.4	1000
100	AVS107M16D16T-F	16.0	0.26	4.3	70	D	6.3 x 5.4	1000
100	AVS107M16E16T-F	16.0	0.2	3.3	200	E	8 x 6.2	1000
220	AVS227M16X16T-F	35.2	0.16	1.2	150	X	6.3 x 7.9	900
220	AVS227M16E16T-F	35.2	0.2	1.5	200	E	8 x 6.2	1000
220	AVS227M16F24T-F	35.2	0.2	1.5	280	F	8 x 10.2	500
330	AVS337M16F24T-F	52.8	0.2	1.0	320	F	8 x 10.2	500
330	AVS337M16G24T-F	52.8	0.2	1.0	380	G	10 x 10.2	500
470	AVS477M16F24T-F	75.2	0.2	0.7	320	F	8 x 10.2	500
470	AVS477M16G24T-F	75.2	0.2	0.7	420	G	10 x 10.2	500
25 Vdc (31 Vdc Surge)								
4.7	AVS475M25A12T-F*	3.0	0.16	56.5	12	A	3 x 5.4	2000
4.7	AVS475M25B12T-F	3.0	0.14	49.4	22	B	4 x 5.4	2000
10	AVS106M25B12T-F	3.0	0.2	33.2	22	B	4 x 5.4	2000
10	AVS106M25C12T-F	3.0	0.14	23.2	28	C	5 x 5.4	1000
22	AVS226M25C12T-F	5.5	0.2	15.1	35	C	5 x 5.4	1000
22	AVS226M25D16T-F	5.5	0.14	10.6	55	D	6.3 x 5.4	1000
33	AVS336M25C12T-F	8.3	0.2	10.0	42	C	5 x 5.4	1000
33	AVS336M25D16T-F	8.3	0.14	7.0	65	D	6.3 x 5.4	1000
47	AVS476M25D16T-F	11.8	0.2	7.1	70	D	6.3 x 5.4	1000
100	AVS107M25X16T-F	25.0	0.14	2.3	150	X	6.3 x 7.9	900
100	AVS107M25E16T-F	25.0	0.16	2.7	91	E	8 x 6.2	1000
100	AVS107M25F24T-F	25.0	0.16	2.7	180	F	8 x 10.2	500
220	AVS227M25F24T-F	55.0	0.16	1.2	140	F	8 x 10.2	500
220	AVS227M25G24T-F	55.0	0.16	1.2	310	G	10 x 10.2	500
330	AVS337M25F24T-F	82.5	0.16	0.8	150	F	8 x 10.2	500
330	AVS337M25G24T-F	82.5	0.16	0.8	340	G	10 x 10.2	500
470	AVS477M25G24T-F	117.5	0.16	0.6	360	G	10 x 10.2	500

*Denotes discontinued part

SMT Aluminum Electrolytic Capacitors - General Purpose, 85°C

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

*Denotes discontinued part

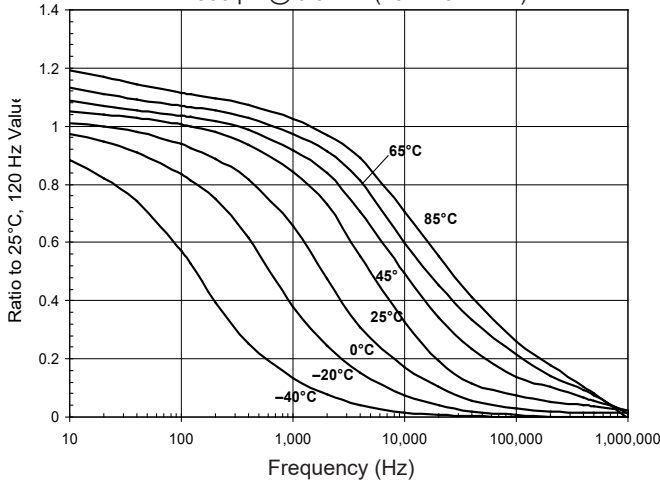
*Overall case height (L dimension) is 5.7 mm ±0.3 mm

Part Numbering System

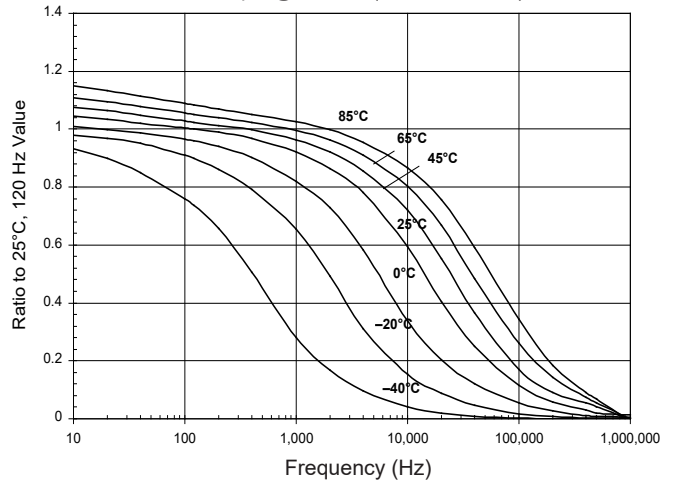
AVS	106	M	16	B	12T	-F
Type	Capacitance	Capacitance Tolerance	Voltage	Case Code	Packaging Information	RoHS Compliant
	104 = 0.1 µF 105 = 1.0 µF 106 = 10 µF 107 = 100 µF 108 = 1000 µF	M = ±20%	04 = 4 Vdc 06 = 6.3 Vdc 10 = 10 Vdc 16 = 16 Vdc 25 = 25 Vdc	35 = 35 Vdc 50 = 50 Vdc 63 = 63 Vdc 2A = 100 Vdc	12 = Carrier Tape Width (mm) T = Tape & Reel B = Bulk	

Typical Performance Curves

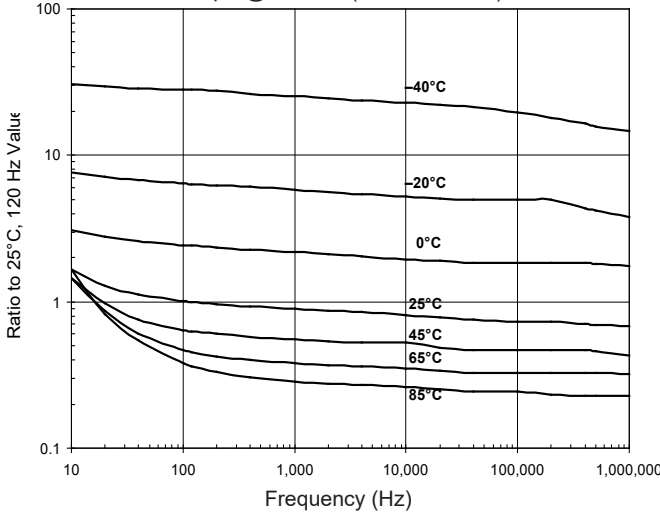
Capacitance vs. Temperature & Frequency
1500 μ F @ 6.3 Vdc (10 X 10.2 mm)



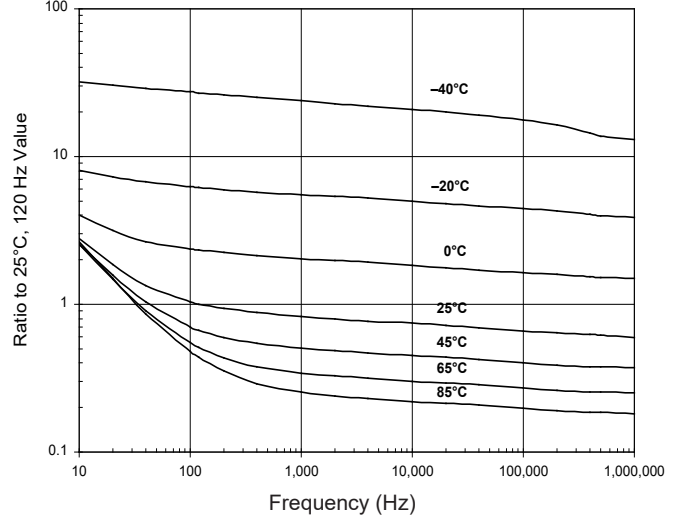
Capacitance vs. Temperature & Frequency
100 μ F @ 16 Vdc (10 X 10.2 mm)



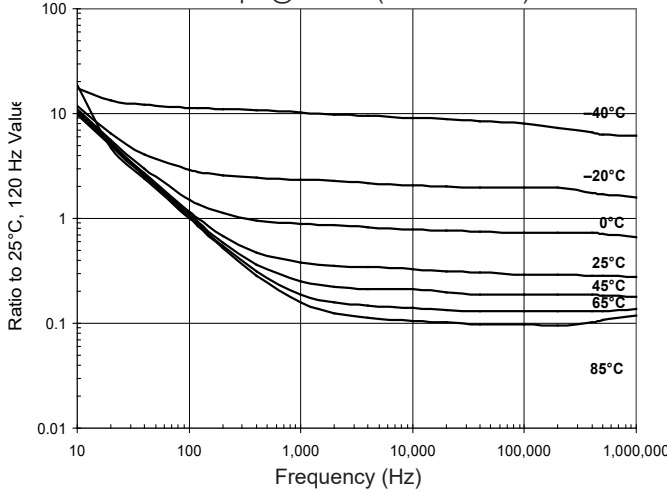
ESR vs. Temperature and Frequency
1500 μ F @ 6.3 Vdc (10 X 10.2 mm)



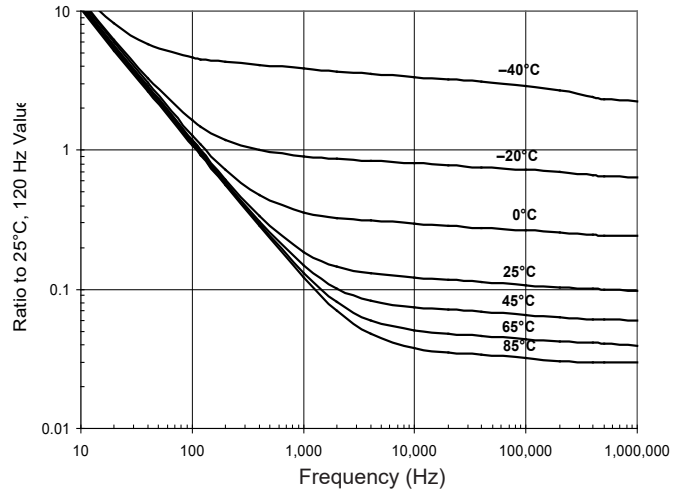
ESR vs. Temperature and Frequency
100 μ F @ 16 Vdc (10 X 10.2 mm)



Impedance vs. Temperature and Frequency
1500 μ F @ 6.3 Vdc (10 X 10.2 mm)

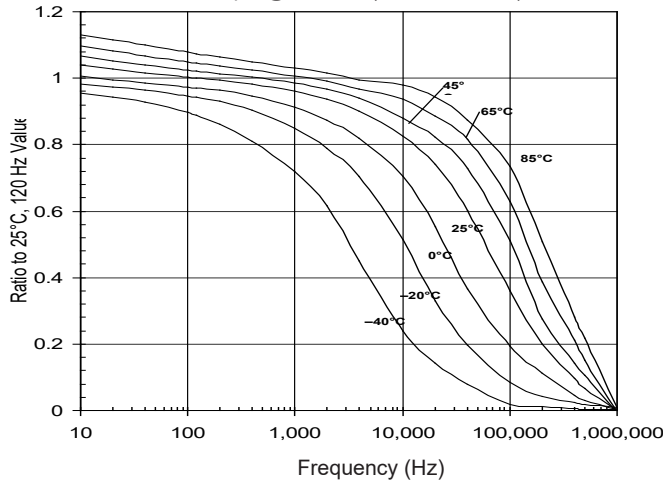


Impedance vs. Temperature and Frequency
100 μ F @ 16 Vdc (10 X 10.2 mm)

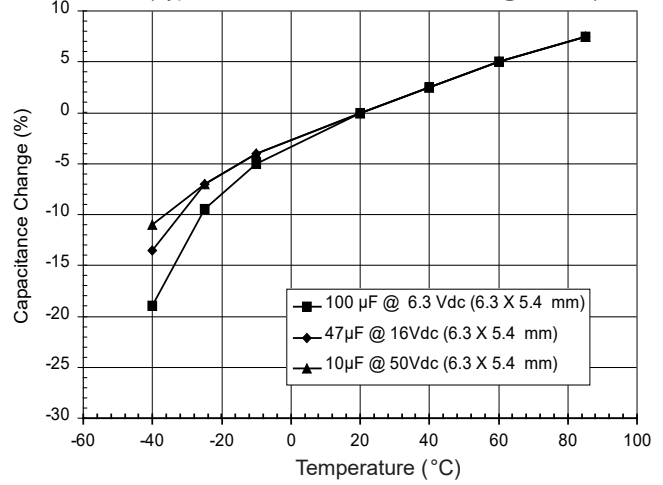


SMT Aluminum Electrolytic Capacitors - General Purpose, 85°C

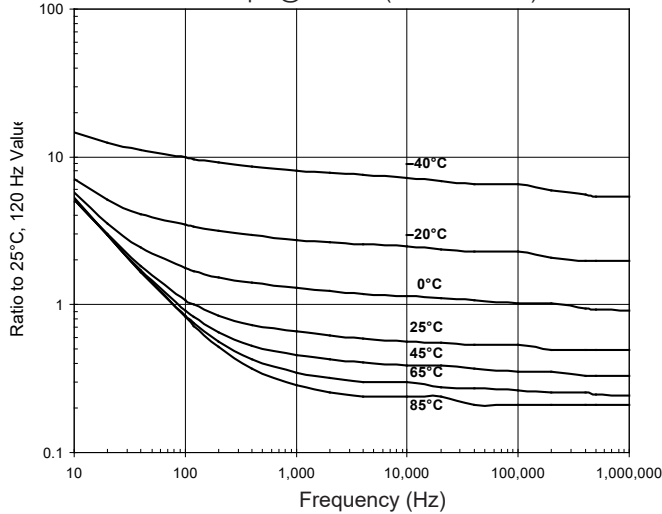
Capacitance vs. Temperature & Frequency
220 μ F @ 50 Vdc (10 X 10.2 mm)



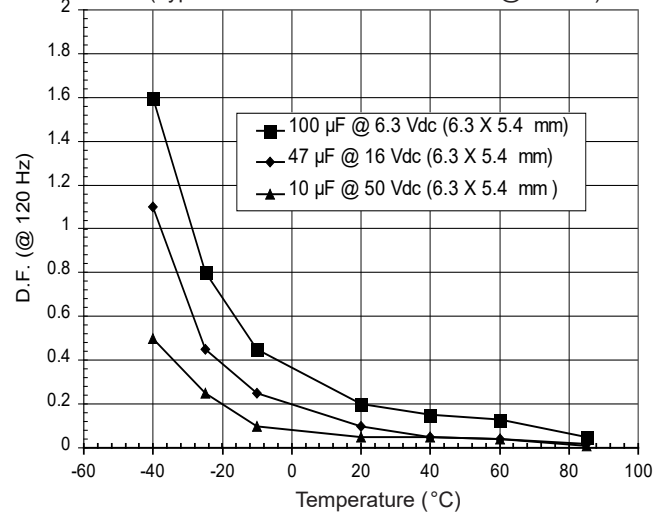
Capacitance Change with Temperature
(Typical Performance for AVS Series @ 120 Hz)



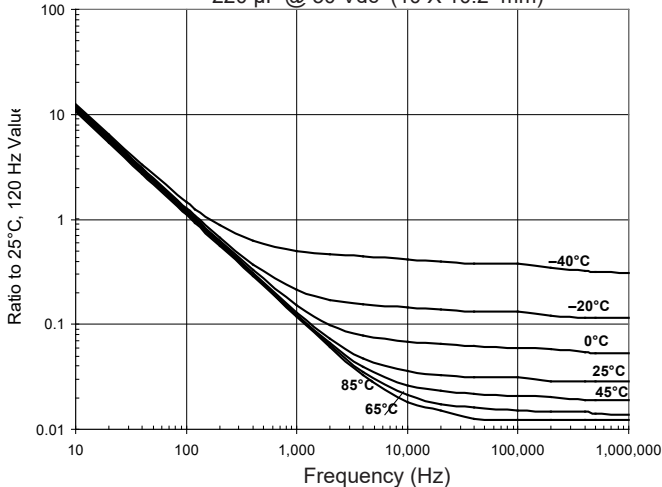
ESR vs. Temperature and Frequency
220 μ F @ 50 Vdc (10 X 10.2 mm)



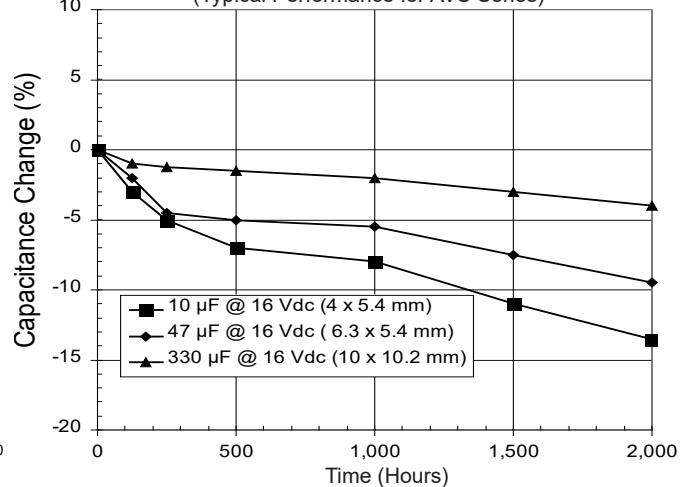
Dissipation Factor vs. Temperature
(Typical Performance for AVS Series @ 120 Hz)



Impedance vs. Temperature and Frequency
220 μ F @ 50 Vdc (10 X 10.2 mm)



Capacitance Change vs. Time
(Typical Performance for AVS Series)



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[AVS227M06D16T-F](#) [AVS335M2AE16T-F](#) [AVS337M16F24T-F](#) [AVS337M35G24T-F](#) [AVS337M25G24T-F](#)
[AVS476M35E16T-F](#) [AVS476M25D16T-F](#) [AVS106M50D16T-F](#) [AVS226M50D16T-F](#) [AVS226M10B12T-F](#)
[AVS476M16C12T-F](#) [AVS336M50E16T-F](#) [AVS226M35D16T-F](#) [AVS226M25D16T-F](#) [AVS476M50G24T-F](#)
[AVS227M35F24T-F](#) [AVS107M50F24T-F](#) [AVS107M35X16T-F](#) [AVS105M50A12T-F](#) [AVS106M2AE16T-F](#)
[AVS106M35B12T-F](#) [AVS106M50C12T-F](#) [AVS107M04C12T-F](#) [AVS107M06C12T-F](#) [AVS107M10C12T-F](#)
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[AVS227M25G24T-F](#) [AVS226M06A12T-F](#) [AVS227M16E16T-F](#) [AVS226M63E16T-F](#) [AVS107M10D16T-F](#)
[AVS227M10E16T-F](#) [AVS227M10X16T-F](#) [AVS227M16X16T-F](#) [AVS334M50A12T-F](#) [AVS226M25C12T-F](#)
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[AVS226M35C12T-F](#) [AVS336M50F24T-F](#) [AVS337M10F24T-F](#) [AVS337M06X16T-F](#) [AVS337M06E16T-F](#)
[AVS336M50X16T-F](#) [AVS337M16G24T-F](#) [AVS336M25D16T-F](#) [AVS336M10C12T-F](#) [AVS336M10B12T-F](#)
[AVS337M25F24T-F](#) [AVS477M16F24T-F](#) [AVS477M10G24T-F](#) [AVS336M35E16T-F](#) [AVS477M06F24T-F](#)
[AVS336M06B12T-F](#) [AVS476M16D16T-F](#) [AVS336M04B12T-F](#) [AVS475M25B12T-F](#) [AVS476M06B12T-F](#)
[AVS474M50A12T-F](#) [AVS476M04B12T-F](#) [AVS475M50B12T-F](#) [AVS476M06C12T-F](#) [AVS336M63F24T-F](#)
[AVS336M16C12T-F](#) [AVS476M50F24T-F](#) [AVS107M25E16T-F](#) [AVS107M63G24T-F](#) [AVS107M16D16T-F](#)
[AVS107M50G24T-F](#) [AVS107M35F24T-F](#) [AVS226M2AG24T-F](#) [AVS106M25B12T-F](#) [AVS106M16B12T-F](#)
[AVS226M16B12T-F](#) [AVS106M25C12T-F](#) [AVS106M35C12T-F](#) [AVS225M50B12T-F](#) [AVS106M2AF24T-F](#)