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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 µF to 1500 µF

D.F. (@ 20°C): See Ratings Table

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

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

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

Δ Capacitance: ±20%

DF: ≤200% of limit

DCL: <100% of limit

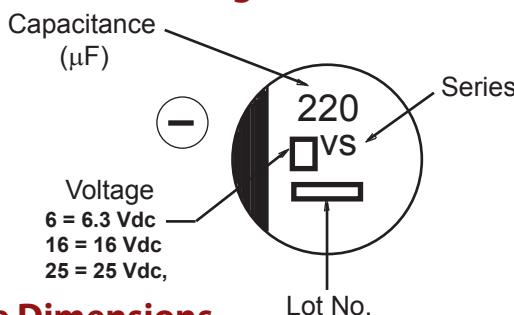
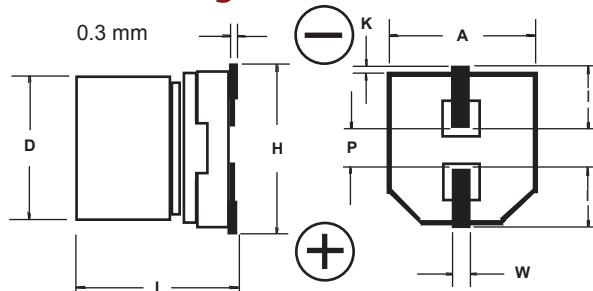
Shelf Life: 1000 h @ 85°C

Δ Capacitance: ±20%

DF: ≤200% 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**Outline Drawing****Case Dimensions**

Case Code	D ± 0.5	L	A ± 0.2	H (max)	I (ref)	W	P (ref)	K
A	3	5.4 ±1,-2	3.3	4.5	1.5	0.55 ± 0.1	0.6	0.35 + 0.15/-0.20
B	4	5.4 ±1,-2	4.3	5.5	1.8	0.65 ± 0.1	1.0	0.35 + 0.15/-0.20
C	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

SMT Aluminum Electrolytic Capacitors - General Purpose, 85°C

Ratings

Cap (μ F)	CaT-Falog Part-F Number	Max. DCL (μ A)	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 (μ F)	CaT-Falog ParT-F Number	Max. DCL (μ A)	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
33	AVS336M2AG24T-F	33.0	0.18	8.0	90	G	10 x 10.2	500

*Denotes discontinued part

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

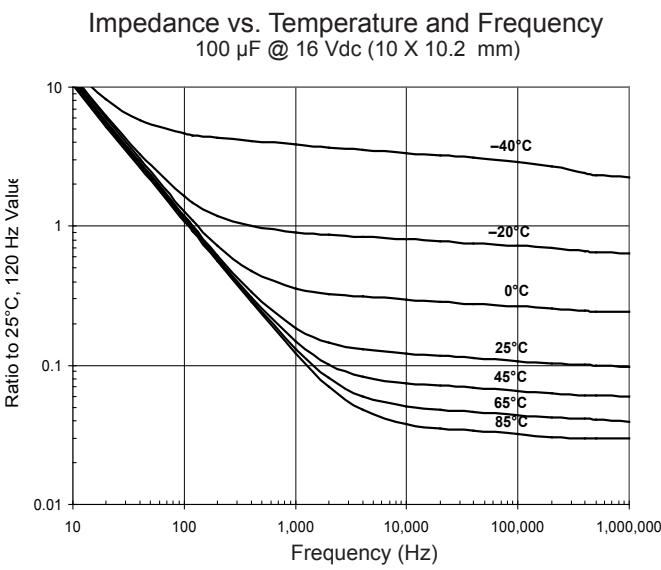
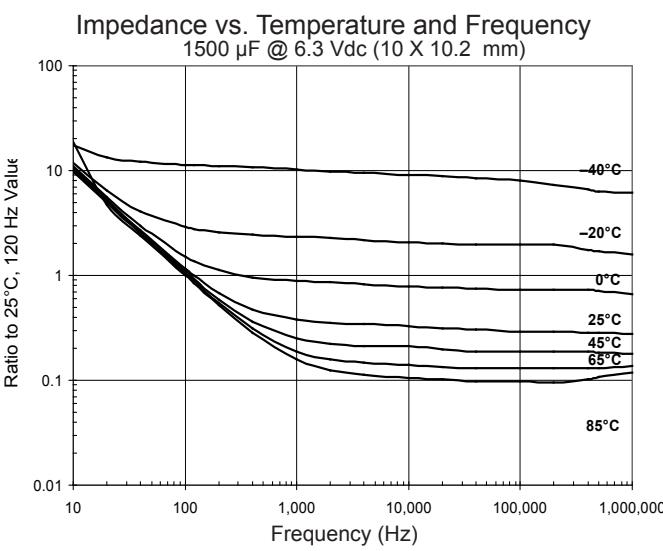
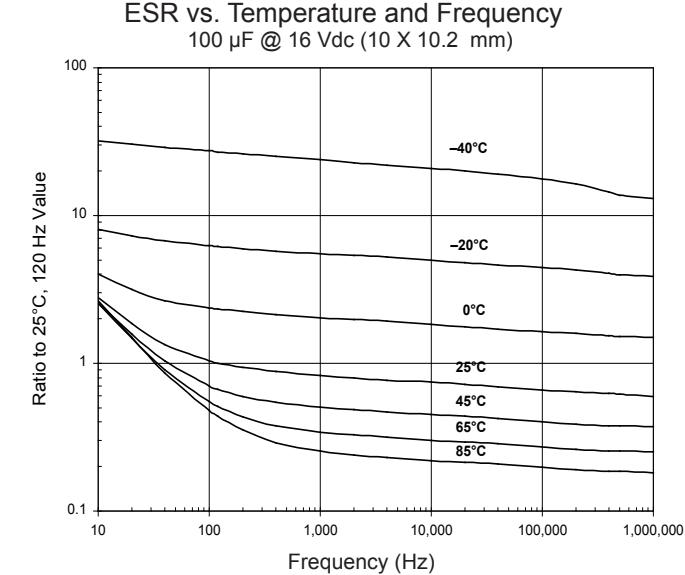
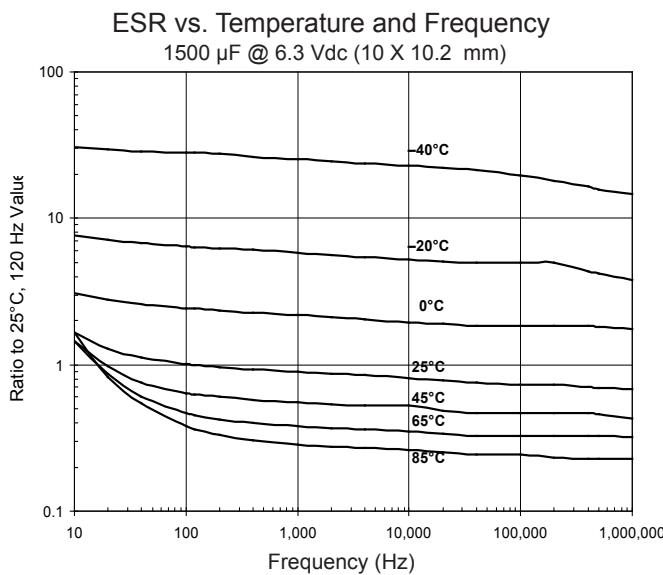
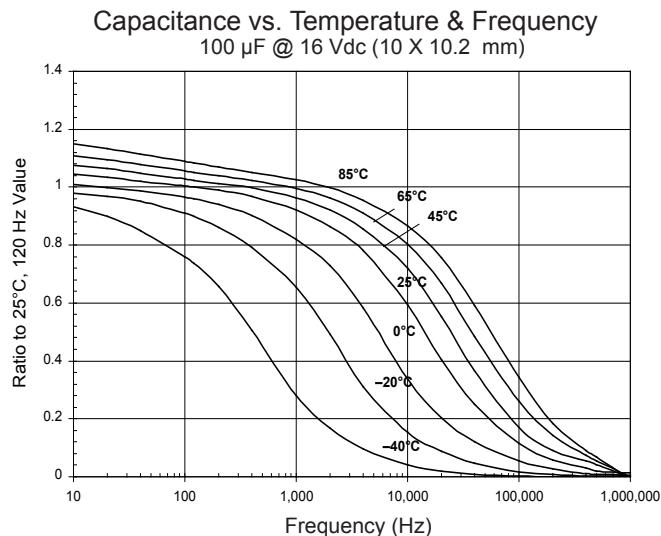
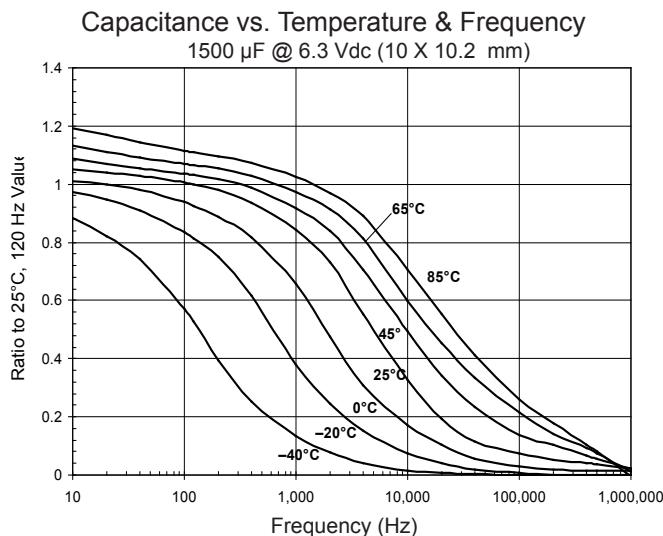
Part Numbering System

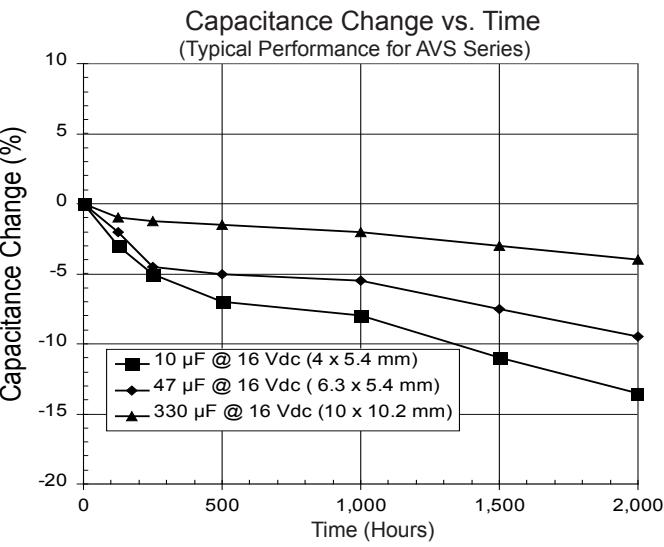
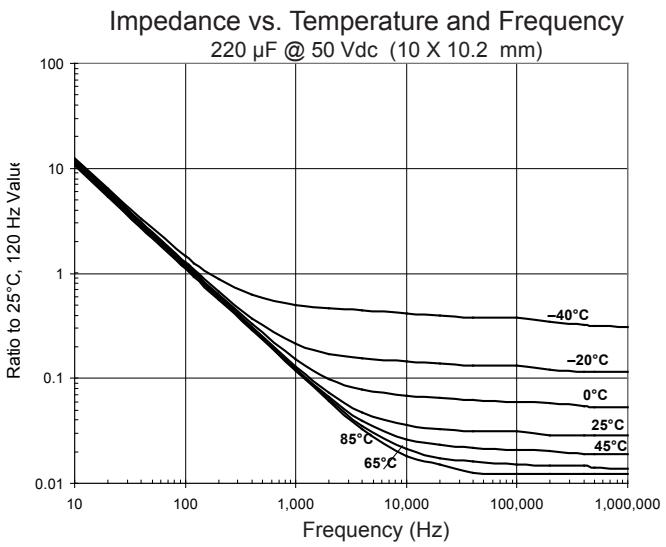
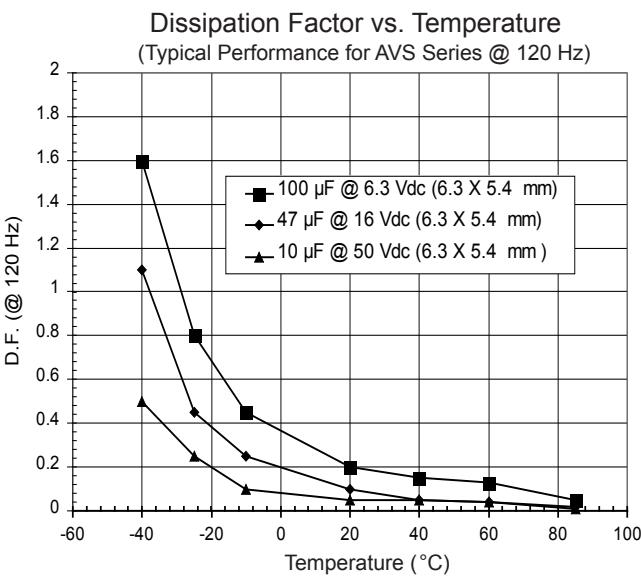
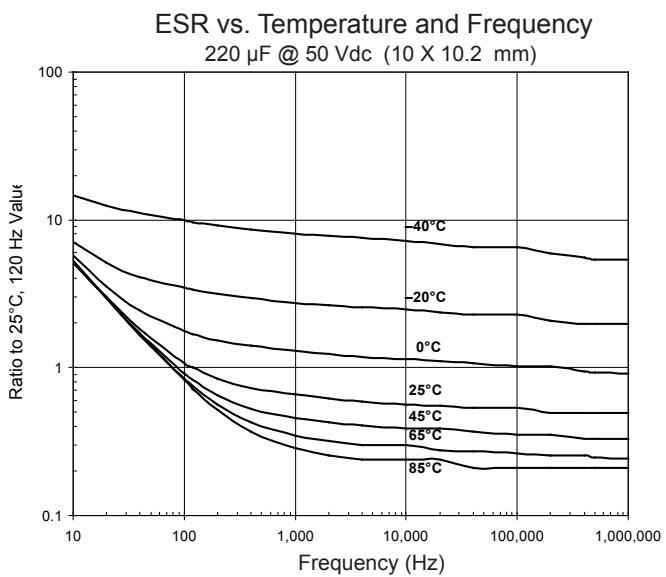
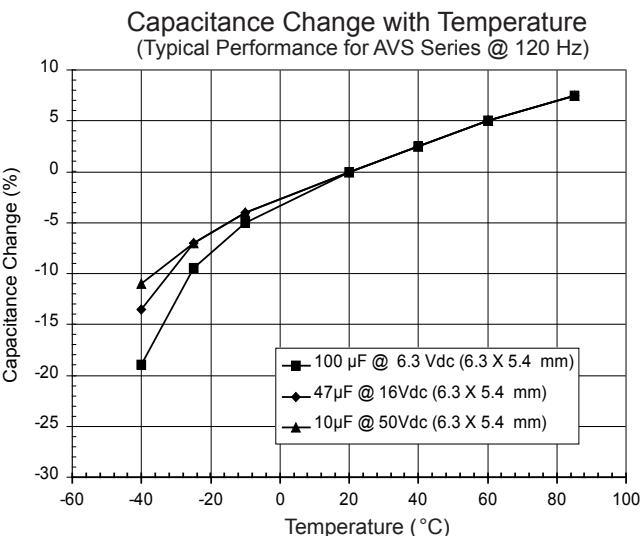
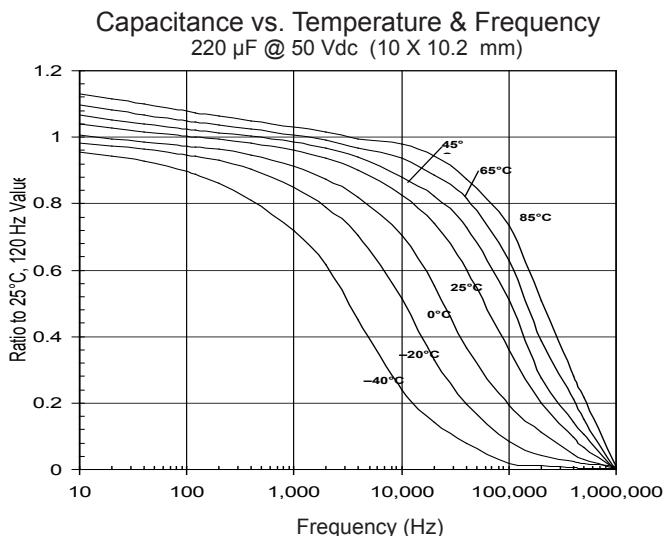
AVS	106	M	16	B	12T	-F
Type	Capacitance	Capacitance Tolerance	Voltage	Case Code	Packaging Information	RoHS Compliant
	104 = 0.1 μ F	M = ±20%	04 = 4 Vdc	35 = 35 Vdc	12 = Carrier Tape Width (mm)	
	105 = 1.0 μ F		06 = 6.3 Vdc	50 = 50 Vdc	T = Tape & Reel	
	106 = 10 μ F		10 = 10 Vdc	63 = 63 Vdc	B = Bulk	
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

Type AVS

SMT Aluminum Electrolytic Capacitors - General Purpose, 85°C

Typical Performance Curves



SMT Aluminum Electrolytic Capacitors - General Purpose, 85°C

Type AVS

SMT Aluminum Electrolytic Capacitors - General Purpose, 85°C

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