

Type AFK $-55\text{ }^{\circ}\text{C}$ to $105\text{ }^{\circ}\text{C}$

SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., $105\text{ }^{\circ}\text{C}$

Low Impedance and Long-Life for Filtering, Bypassing and Power Supply Decoupling



Type AFK Capacitors are the best and by a wide margin. With 40% to 60% lower impedance, 30% to 50% smaller case size and more than twice the life compared to low-ESR type AFC, the Type AFK also excels at cold performance down to $-55\text{ }^{\circ}\text{C}$. In addition, this terrific low-impedance performance, approaching low-ESR tantalum capacitors, is at a significant cost savings compared to tantalum. The vertical cylindrical cases facilitate automatic mounting and reflow soldering into the same footprint of like-rated tantalum capacitors except without the need for voltage derating.

Highlights

- $+105\text{ }^{\circ}\text{C}$, Up to 5000 Hour Load Life
- Capacitance Range: $3.3\text{ }\mu\text{F}$ to $6800\text{ }\mu\text{F}$
- Voltage Range: 6.3 Vdc to 100 Vdc

Specifications

Operating Temperature: $-55\text{ }^{\circ}\text{C}$ to $+105\text{ }^{\circ}\text{C}$
Rated Voltage: 6.3, 10, 16, 25, 35, 50, 63, 80 & 100 Vdc
Capacitance: $3.3\text{ }\mu\text{F}$ to $6800\text{ }\mu\text{F}$
Capacitance Tolerance: $\pm 20\%$ @ 120 Hz and $+20\text{ }^{\circ}\text{C}$
Leakage Current: 0.01 CV or $3\text{ }\mu\text{A}$ @ $+20\text{ }^{\circ}\text{C}$, after two minutes (whichever is greater)

Ripple Current Multiplier:

Frequency	50/60 Hz	120 Hz	1 kHz	10 kHz	100 kHz
	0.70	.075	0.90	0.95	1.00

Dissipation Factor:

6.3V	10 V	16 V	25 V	35 V	50 V	63 V	80 V	100 V
0.26	0.19	0.16	0.14	0.12	0.1	0.08	0.08	0.07

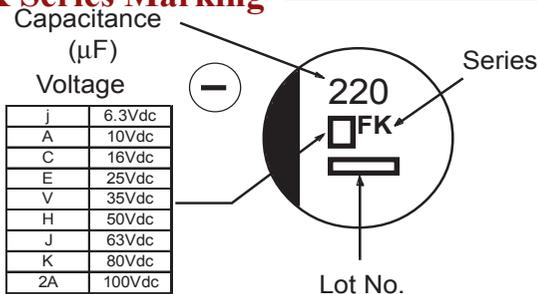
Add 0.02 per 1000 μF for values greater than 1000 μF

Life Test: 2000 h @ $105\text{ }^{\circ}\text{C}$, 4.0 — 10.0 mm dia.
 5000 h @ $105\text{ }^{\circ}\text{C}$, 12.5 — 18.0 mm dia.

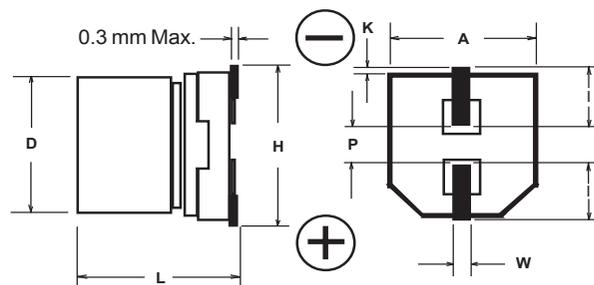
Δ Capacitance $\pm 30\%$
 DF: $\leq 200\%$ of limit
 DCL: $\leq 100\%$ of limit

Shelf Test: 1000 h @ $105\text{ }^{\circ}\text{C}$
 Δ Capacitance $\pm 30\%$
 DF: $\leq 200\%$ of limit
 DCL: $\leq 100\%$ of limit

AFK Series Marking



Outline Drawing



Case Dimensions

Case Code	D $\pm .05$	L	A ± 0.2	H (max)	I (ref)	W	P (ref)	K (mm)
B	4.0	5.8 ± 0.3	4.3	5.5	1.8	0.65 ± 0.1	1.0	$0.35 +0.15/-0.20$
C	5.0	5.8 ± 0.3	5.3	6.5	2.2	0.65 ± 0.1	1.5	$0.35 +0.15/-0.20$
D	6.3	5.8 ± 0.3	6.6	7.8	2.6	0.65 ± 0.1	1.8	$0.35 +0.15/-0.20$
X	6.3	7.9 ± 0.3	6.6	7.8	2.6	0.65 ± 0.1	1.8	$0.35 +0.15/-0.20$
E	8.0	6.2 ± 0.3	8.3	9.5	3.4	0.65 ± 0.1	2.2	$0.35 +0.15/-0.20$
F	8.0	10.2 ± 0.3	8.3	10.0	3.4	0.90 ± 0.2	3.1	0.70 ± 0.20
G	10.0	10.2 ± 0.3	10.3	12.0	3.5	0.90 ± 0.2	4.6	0.70 ± 0.20
H	12.5	13.5 ± 0.5	13.5	15.0	4.7	0.90 ± 0.3	4.4	0.70 ± 0.30
P	16.0	16.5 ± 0.5	17.0	19.0	5.5	1.2 ± 0.3	6.7	0.70 ± 0.30
R	18.0	16.5 ± 0.5	19.0	21.0	6.7	1.2 ± 0.3	6.7	0.70 ± 0.30

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Ratings Table

Cap (μF)	Catalog Part Number	Max. DCL 2 min (μA)	Max. Dissipation Factor @120 Hz/20 $^{\circ}\text{C}$	Max. ESR @100 kHz/20 $^{\circ}\text{C}$ (Ω)	Impedance @ 100 kHz/20 $^{\circ}\text{C}$ (Ω)	Max. Ripple Current @ 100 kHz/105 $^{\circ}\text{C}$ (mA)	Case Code	Size D x L (mm)	Quantity per Reel
6.3 Vdc (8 Vdc Surge)									
22	AFK226M06B12T-F	3.0	0.26	1.350	1.350	90	B	4 x 5.8	2000
47	AFK476M06B12T-F	3.0	0.26	1.350	1.350	90	B	4 x 5.8	2000
47	AFK476M06C12T-F	3.0	0.26	0.700	0.700	160	C	5 x 5.8	1000
100	AFK107M06C12T-F	6.3	0.26	0.700	0.700	160	C	5 x 5.8	1000
100	AFK107M06D16T-F	6.3	0.26	0.360	0.360	240	D	6.3 x 5.8	1000
220	AFK227M06D16T-F	13.9	0.26	0.360	0.360	240	D	6.3 x 5.8	1000
330	AFK337M06X16T-F	20.8	0.26	0.340	0.340	280	X	6.3 x 7.7	900
330	AFK337M06E16T-F	20.8	0.26	0.260	0.260	300	E	8 x 6.2	1000
470	AFK477M06F24T-F	29.6	0.26	0.160	0.160	600	F	8 x 10.2	500
1000	AFK108M06F24T-F	63.0	0.26	0.160	0.160	600	F	8 x 10.2	500
1500	AFK158M06G24T-F	94.5	0.26	0.080	0.080	850	G	10 x 10.2	500
3300	AFK338M06H32T-F	207.9	0.30	0.060	0.060	1100	H	12.5 x 13.5	200
6800	AFK688M06P44T-F	428.4	0.36	0.035	0.035	1800	P	16 x 16.5	125
10 Vdc (13 Vdc Surge)									
22	AFK226M10B12T-F	3.0	0.19	1.350	1.350	90	B	4 x 5.8	2000
33	AFK336M10B12T-F	3.3	0.19	1.350	1.350	90	B	4 x 5.8	2000
33	AFK336M10C12T-F	3.3	0.19	0.700	0.700	160	C	5 x 5.8	1000
150	AFK157M10D16T-F	15.0	0.19	0.360	0.360	240	D	6.3 x 5.8	1000
220	AFK227M10X16T-F	22.0	0.19	0.340	0.340	280	X	6.3 x 7.7	900
220	AFK227M10E16T-F	22.0	0.19	0.260	0.260	300	E	8 x 6.2	1000
330	AFK337M10F24T-F	33.0	0.19	0.160	0.160	600	F	8 x 10.2	500
470	AFK477M10F24T-F	47.0	0.19	0.160	0.160	600	F	8 x 10.2	500
680	AFK687M10F24T-F	68.0	0.19	0.160	0.160	600	F	8 x 10.2	500
1000	AFK108M10G24T-F	100.0	0.19	0.080	0.080	850	G	10 x 10.2	500
2200	AFK228M10H32T-F	220.0	0.21	0.060	0.060	1100	H	12.5 x 13.5	200
4700	AFK478M10P44T-F	470.0	0.25	0.035	0.035	1800	P	16 x 16.5	125
6800	AFK688M10R44T-F	680.0	0.29	0.033	0.033	2060	R	18 x 16.5	125
16 Vdc (20 Vdc Surge)									
10	AFK106M16B12T-F	3.0	0.16	1.350	1.350	90	B	4 x 5.8	2000
22	AFK226M16B12T-F	3.5	0.16	1.350	1.350	90	B	4 x 5.8	2000
22	AFK226M16C12T-F	3.5	0.16	0.700	0.700	160	C	5 x 5.8	1000
47	AFK476M16C12T-F	7.5	0.16	0.700	0.700	160	C	5 x 5.8	1000
47	AFK476M16D16T-F	7.5	0.16	0.360	0.360	240	D	6.3 x 5.8	1000
68	AFK686M16D16T-F	10.9	0.19	0.360	0.360	240	D	6.3 x 5.8	1000
100	AFK107M16D16T-F	16.0	0.16	0.360	0.360	240	D	6.3 x 5.8	1000
150	AFK157M16X16T-F	24.0	0.16	0.340	0.340	280	X	6.3 x 7.7	900
220	AFK227M16X16T-F	35.2	0.16	0.340	0.340	280	X	6.3 x 7.7	900
220	AFK227M16E16T-F	35.2	0.16	0.260	0.260	300	E	8 x 6.2	1000
330	AFK337M16F24T-F	52.8	0.16	0.160	0.160	600	F	8 x 10.2	500
470	AFK477M16F24T-F	75.2	0.16	0.160	0.160	600	F	8 x 10.2	500
680	AFK687M16G24T-F	108.8	0.16	0.080	0.080	850	G	10 x 10.2	500
1500	AFK158M16H32T-F	240.0	0.16	0.060	0.060	1100	H	12.5 x 13.5	200
3300	AFK338M16P44T-F	528.0	0.20	0.035	0.035	1800	P	16 x 16.5	125
4700	AFK478M16R44T-F	752.0	0.22	0.033	0.033	2060	R	18 x 16.5	125

Type AFK $-55\text{ }^{\circ}\text{C}$ to $105\text{ }^{\circ}\text{C}$

SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., $105\text{ }^{\circ}\text{C}$

Cap (μF)	Catalog Part Number	Max. DCL 2 min (μA)	Max. Dissipation Factor @120 Hz/20 $^{\circ}\text{C}$	Max. ESR @100 kHz/20 $^{\circ}\text{C}$ (Ω)	Impedance @ 100 kHz/20 $^{\circ}\text{C}$ (Ω)	Max. Ripple Current @ 100 kHz/105 $^{\circ}\text{C}$ (mA)	Case Code	Size D x L (mm)	Quantity per Reel
25 Vdc (31 Vdc Surge)									
10	AFK106M25B12T-F	3.0	0.14	1.350	1.350	90	B	4 x 5.8	2000
22	AFK226M25C12T-F	5.5	0.14	0.700	0.700	160	C	5 x 5.8	1000
33	AFK336M25C12T-F	8.3	0.14	0.700	0.700	160	C	5 x 5.8	1000
33	AFK336M25D16T-F	8.3	0.14	0.360	0.360	240	D	6.3 x 5.8	1000
47	AFK476M25D16T-F	11.8	0.14	0.360	0.360	240	D	6.3 x 5.8	1000
68	AFK686M25D16T-F	17.0	0.14	0.360	0.360	240	D	6.3 x 5.8	1000
100	AFK107M25X16T-F	25.0	0.14	0.340	0.340	280	X	6.3 x 7.7	900
100	AFK107M25E16T-F	25.0	0.14	0.260	0.260	300	E	8 x 6.2	1000
150	AFK157M25F24T-F	37.5	0.14	0.160	0.160	600	F	8 x 10.2	500
220	AFK227M25F24T-F	55.0	0.14	0.160	0.160	600	F	8 x 10.2	500
330	AFK337M25F24T-F	82.5	0.14	0.160	0.160	600	F	8 x 10.2	500
470	AFK477M25G24T-F	117.5	0.14	0.080	0.080	850	G	10 x 10.2	500
1000	AFK108M25H32T-F	250.0	0.14	0.060	0.060	1100	H	12.5 x 13.5	200
1500	AFK158M25P44T-F	375.0	0.14	0.035	0.035	1800	P	16 x 16.5	125
2200	AFK228M25P44T-F	550.0	0.16	0.035	0.035	1800	P	16 x 16.5	125
3300	AFK338M25R44T-F	825.0	0.18	0.033	0.033	2060	R	18 x 16.5	125
35 Vdc (44 Vdc Surge)									
4.7	AFK475M35B12T-F	3.0	0.12	1.350	1.350	90	B	4 x 5.8	2000
10	AFK106M35B12T-F	3.5	0.12	1.350	1.350	90	B	4 x 5.8	2000
10	AFK106M35C12T-F	3.5	0.12	0.700	0.700	160	C	5 x 5.8	1000
22	AFK226M35C12T-F	7.7	0.12	0.700	0.700	160	C	5 x 5.8	1000
33	AFK336M35D16T-F	11.6	0.12	0.360	0.360	240	D	6.3 x 5.8	1000
47	AFK476M35D16T-F	16.5	0.12	0.360	0.360	240	D	6.3 x 5.8	1000
68	AFK686M35X16T-F	23.8	0.12	0.340	0.340	280	X	6.3 x 7.7	900
100	AFK107M35X16T-F	35.0	0.12	0.340	0.340	280	X	6.3 x 7.7	900
100	AFK107M35F24T-F	35.0	0.12	0.160	0.160	600	F	8 x 10.2	500
150	AFK157M35F24T-F	52.5	0.12	0.160	0.160	600	F	8 x 10.2	500
220	AFK227M35F24T-F	77.0	0.12	0.160	0.160	600	F	8 x 10.2	500
330	AFK337M35G24T-F	115.5	0.12	0.080	0.080	850	G	10 x 10.2	500
470	AFK477M35H32T-F	164.5	0.12	0.060	0.060	1100	H	12.5 x 13.5	200
680	AFK687M35H32T-F	238.0	0.12	0.060	0.060	1100	H	12.5 x 13.5	200
1000	AFK108M35P44T-F	350.0	0.12	0.035	0.035	1800	P	16 x 16.5	125
1500	AFK158M35P44T-F	525.0	0.12	0.035	0.035	1800	P	16 x 16.5	125
50 Vdc (63 Vdc Surge)									
4.7	AFK475M50B12T-F	3.0	0.10	2.900	2.900	60	B	4 x 5.8	2000
10	AFK106M50C12T-F	5.0	0.10	1.520	1.520	85	C	5 x 5.8	1000
10	AFK106M50D16T-F	5.0	0.10	0.880	0.880	165	D	6.3 x 5.8	1000
22	AFK226M50D16T-F	11.0	0.10	0.880	0.880	165	D	6.3 x 5.8	1000
33	AFK336M50X16T-F	16.5	0.10	0.680	0.680	195	X	6.3 x 7.7	900
33	AFK336M50E16T-F	16.5	0.10	0.680	0.680	195	E	8 x 6.2	1000
47	AFK476M50X16T-F	23.5	0.10	0.680	0.680	195	X	6.3 x 7.7	900
47	AFK476M50E16T-F	23.5	0.10	0.680	0.680	195	E	8 x 6.2	1000
100	AFK107M50F24T-F	50.0	0.10	0.340	0.340	350	F	8 x 10.2	500

Type AFK **-55 °C to 105 °C**

SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., 105 °C

Cap (µF)	Catalog Part Number	Max. DCL 2 min (µA)	Max. Dissipation Factor @120 Hz/20 °C	Max. ESR @100 kHz/20 °C (Ω)	Impedance @ 100 kHz/20 °C (Ω)	Max. Ripple Current @ 100 kHz/105 °C (mA)	Case Code	Size D x L (mm)	Quantity per Reel
50 Vdc (63 Vdc Surge)									
150	AFK157M50G24T-F	75.0	0.10	0.180	0.180	670	G	10 x 10.2	500
220	AFK227M50G24T-F	110.0	0.10	0.180	0.180	670	G	10 x 10.2	500
330	AFK337M50H32T-F	165.0	0.10	0.120	0.120	900	H	12.5 x 13.5	200
390	AFK397M50H32T-F	195.0	0.10	0.120	0.120	900	H	12.5 x 13.6	200
470	AFK477M50P44T-F	235.0	0.10	0.073	0.073	1610	P	16 x 16.5	125
560	AFK567M50P44T-F	280.0	0.10	0.073	0.073	1610	P	16 x 16.5	125
680	AFK687M50P44T-F	340.0	0.10	0.073	0.073	1610	P	16 x 16.5	125
1000	AFK108M50P44T-F	500.0	0.10	0.073	0.073	1610	P	16 x 16.5	125
63 Vdc (75 Vdc Surge)									
4.7	AFK475M63C12T-F	3.0	0.08	3.000	3.000	50	C	5 x 5.8	1000
10	AFK106M63D16T-F	6.3	0.08	1.500	1.500	80	D	6.3 x 5.8	1000
22	AFK226M63X16T-F	13.9	0.08	1.200	1.200	120	X	6.3 x 7.7	900
22	AFK226M63E16T-F	13.9	0.08	1.200	1.200	120	E	8 x 6.2	1000
33	AFK336M63F24T-F	20.8	0.08	0.650	0.650	250	F	8 x 10.2	500
47	AFK476M63F24T-F	29.6	0.08	0.650	0.650	250	F	8 x 10.2	500
68	AFK686M63G24T-F	42.8	0.08	0.350	0.350	400	G	10 x 10.2	500
100	AFK107M63G24T-F	63.0	0.08	0.350	0.350	400	G	10 x 10.2	500
150	AFK157M63H32T-F	94.5	0.08	0.160	0.160	800	H	12.5 x 13.5	200
220	AFK227M63H32T-F	138.6	0.08	0.160	0.160	800	H	12.5 x 13.5	200
470	AFK477M63P44T-F	296.1	0.08	0.082	0.082	1410	P	16 x 16.5	125
680	AFK687M63R44T-F	428.4	0.08	0.080	0.080	1690	R	18 x 16.5	125
80 Vdc (100 Vdc Surge)									
3.3	AFK335M80C12T-F	3.0	0.08	5.00	5.00	25	C	5 x 5.8	1000
4.7	AFK475M80D16T-F	3.8	0.08	3.00	3.00	40	D	6.3 x 5.8	1000
10.0	AFK106M80X16T-F	8.0	0.08	2.40	2.40	60	X	6.3 x 7.7	900
10.0	AFK106M80E16T-F	8.0	0.08	2.40	2.40	60	E	8 x 6.2	1000
22.0	AFK226M80F24T-F	17.6	0.08	1.30	1.30	130	F	8 x 10.2	500
33.0	AFK336M80F24T-F	26.4	0.08	1.30	1.30	130	F	8 x 10.2	500
47.0	AFK476M80G24T-F	37.6	0.08	0.70	0.70	200	G	10 x 10.2	500
68.0	AFK686M80H32T-F	54.4	0.08	0.32	0.32	500	H	12.5 x 13.5	200
100.0	AFK107M80H32T-F	80.0	0.08	0.32	0.32	500	H	12.5 x 13.5	200
150.0	AFK157M80H32T-F	120.0	0.08	0.32	0.32	500	H	12.5 x 13.5	200
330.0	AFK337M80P44T-F	264.0	0.08	0.17	0.17	793	P	16 x 16.5	125
470.0	AFK477M80R44T-F	376.0	0.08	0.15	0.15	917	R	18 x 16.5	125
100 Vdc (125 Vdc Surge)									
22.0	AFK226M2AF24T-F	22.0	0.07	1.30	1.30	130	F	8 x 10.2	500
33.0	AFK336M2AG24T-F	33.0	0.07	0.70	0.70	200	G	10 x 10.2	500
47.0	AFK476M2AH32T-F	47.0	0.07	0.32	0.32	500	H	12.5 x 13.5	200
68.0	AFK686M2AH32T-F	68.0	0.07	0.32	0.32	500	H	12.5 x 13.5	200
100.0	AFK107M2AP44T-F	100.0	0.07	0.17	0.17	793	P	16 x 16.5	125
150.0	AFK157M2AP44T-F	150.0	0.07	0.17	0.17	793	P	16 x 16.5	125
220.0	AFK227M2AR44T-F	220.0	0.07	0.15	0.15	917	R	18 x 16.5	125
330.0	AFK337M2AR44T-F	330.0	0.07	0.15	0.15	917	R	18 x 16.5	125

Type AFK -55°C to 105°C

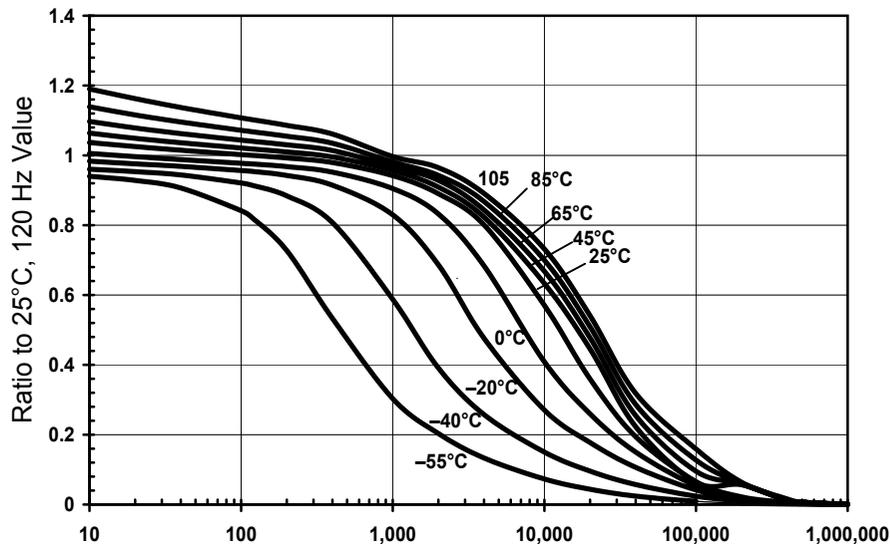
SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., 105°C

Part Numbering System

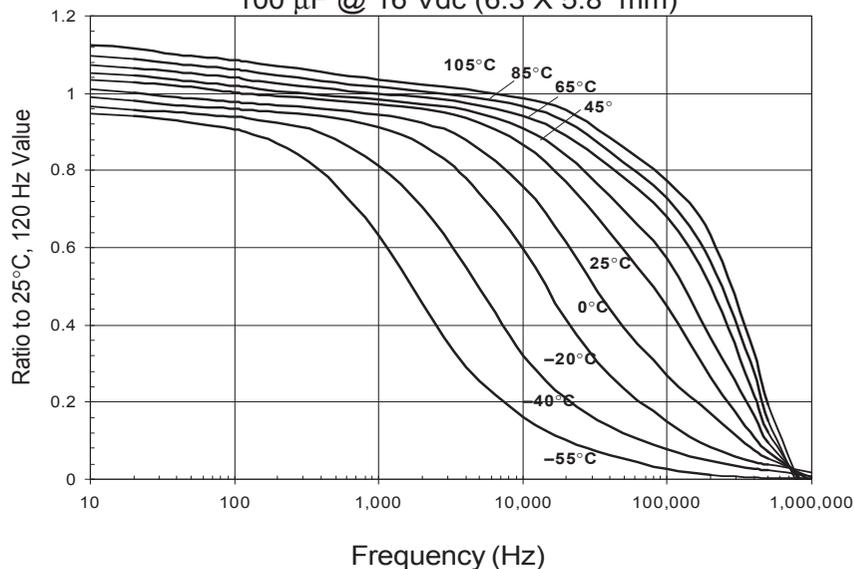
AFK	106	M	16	B	12T	-F
Type	Capacitance	Capacitance	Voltage Code	Case Code	Packaging Code	RoHS Compliant
105 = 1.0 μF	Tolerance	06 = 6.3 Vdc	35 = 35 Vdc	12 = Carrier tape		
106 = 10.0 μF	M = $\pm 20\%$	10 = 10 Vdc	50 = 50 Vdc	Width (mm)		
107 = 100.0 μF		16 = 16 Vdc	63 = 63 Vdc	T = Tape & Reel		
108 = 1000.0 μF		25 = 25 Vdc	80 = 80 Vdc	B = Bulk		
			2A = 100 Vdc			

Typical Performance Curves

Capacitance vs. Temperature and Frequency
3300 μF /6.3Vdc (12.5 x 13.5 mm)



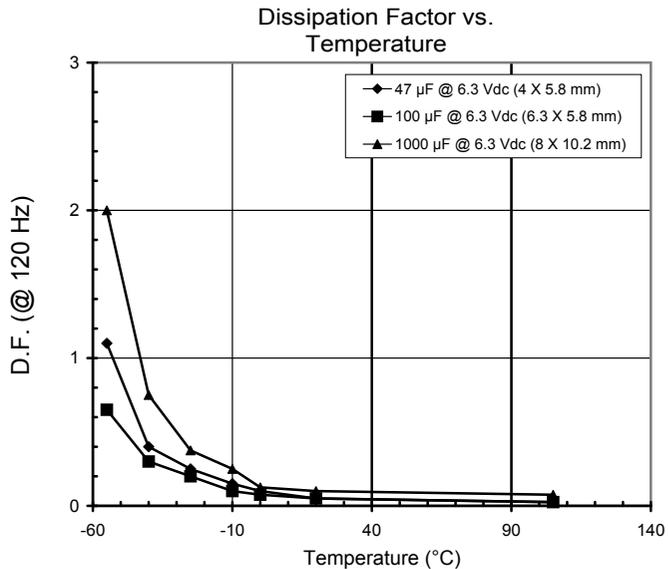
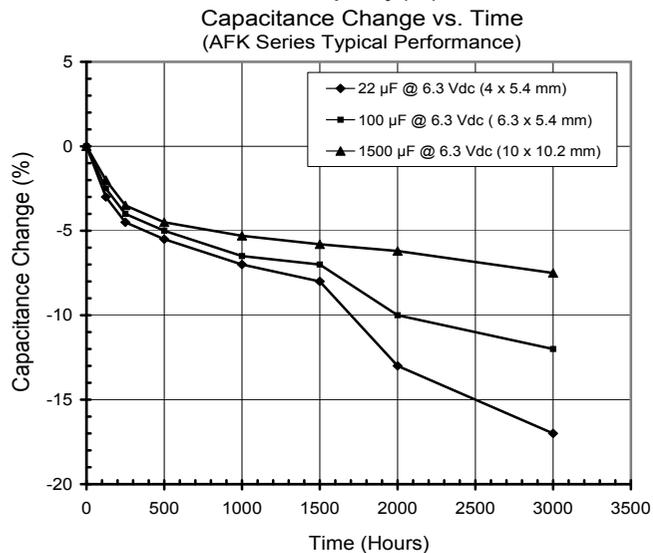
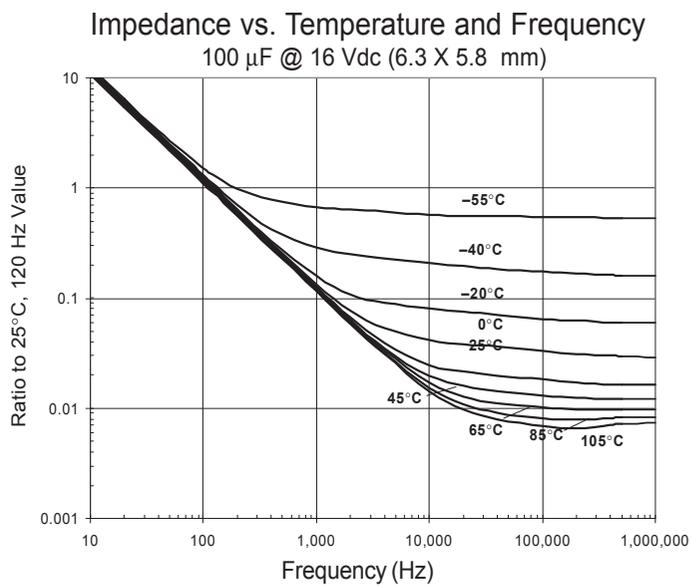
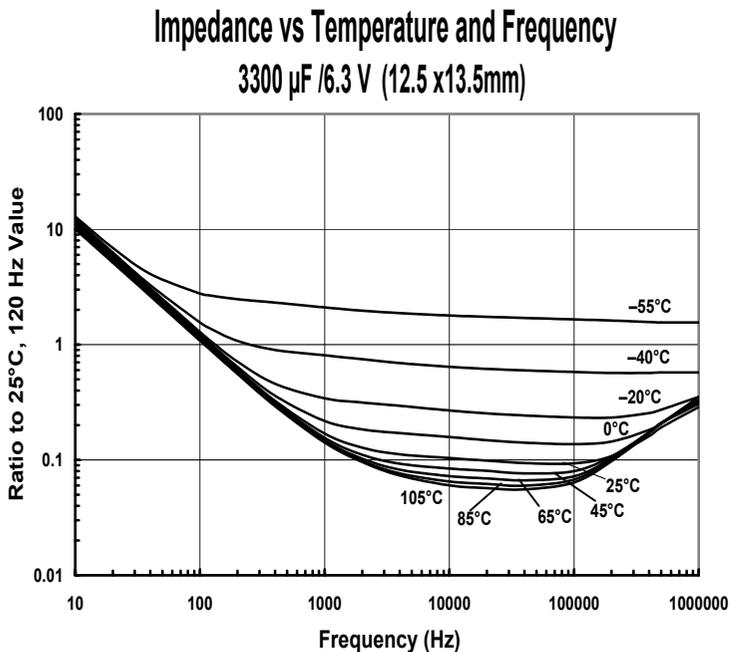
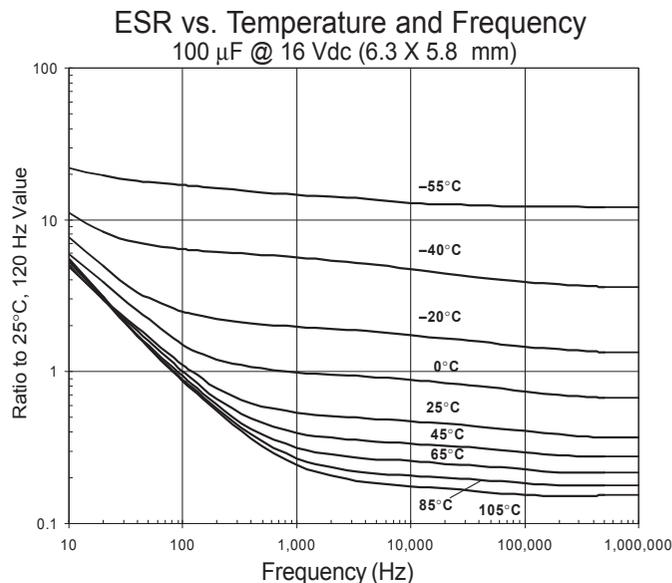
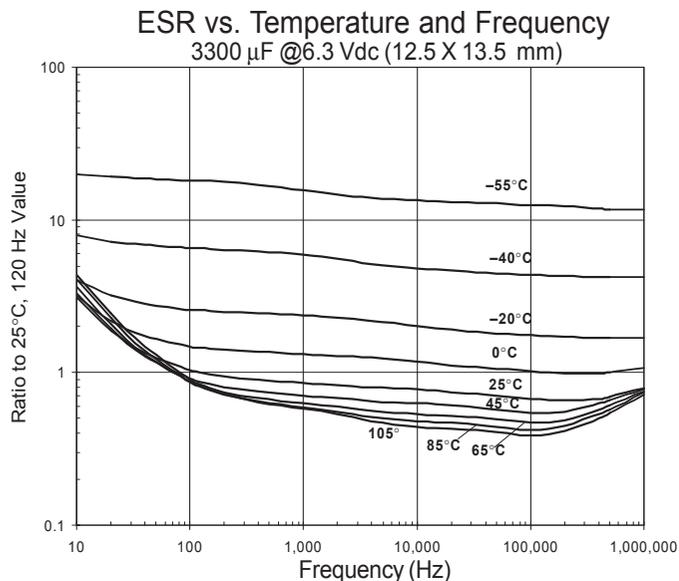
Capacitance vs. Temperature & Frequency
100 μF @ 16 Vdc (6.3 X 5.8 mm)



Type AFK -55°C to 105°C

SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., 105°C

Typical Performance Curves



Type AFK $-55\text{ }^{\circ}\text{C}$ to $105\text{ }^{\circ}\text{C}$

SMT Aluminum Electrolytic Capacitors - Lowest E.S.R., $105\text{ }^{\circ}\text{C}$

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