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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Type AFC -55 °C to 105 °C

SMT Aluminum Electrolytic Capacitors - Low Impedance, 105 °C

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



Type AFC Capacitors are the choice for high-frequency filtering. At 100 kHz, most ratings can handle more than twice the ripple current of type AHA. With solid performance at temperatures down to $-55\,^{\circ}$ C, Type AFC has more than 90% capacitance retention at $-20\,^{\circ}$ C and 1 kHz. With low impedance to beyond 100 kHz, it is ideal for higher power DC/DC converters. The vertical cylindrical cases make for easy automatic mounting and reflow soldering, and offer big savings and higher capacitance compared to tantalum capacitors.

Highlights

+105 °C, Up to 1000 Hour Load Life
Capacitance Range: 1 μF to 1500 μF
Voltage Range: 6.3 Vdc to 50 Vdc

Specifications ____

Operating Temperature: -55 °C to +105 °C

Rated Voltage: 6.3, 10, 16, 25 & 50 Vdc

Capacitance: 1.0 µF to 1500 µF

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

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

Dissipation Factor: See ratings table

Ripple Current Multiplier: Frequency

50/60 Hz	120 Hz	1 kHz	10 kHz	100 kHz		
0.70	.0.75	0.90	0.95	1.00		

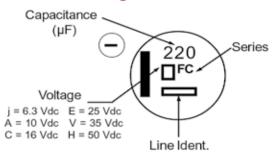
Load Life: 1000 h @ +105 °C

Δ Capacitance ±20% DF: ≤200% of limit DCL: ≤100% of limit

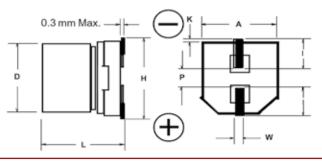
Shelf Life: 1000 h @ +105 °C

Δ Capacitance ±20% DF: ≤200% of limit DCL: ≤100% of limit

AFC Series Marking -



Outline Drawing



Case Dimensions

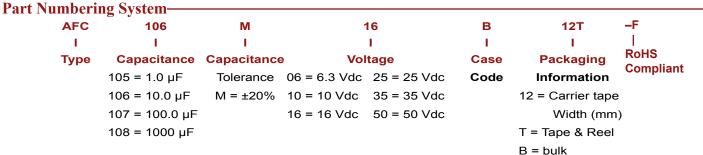
Case			A ± 0.2	H (max)		Dimensions in (mm)			
Code	D ± 0.5	L			I (ref)	W	P (ref)	K	
В	4.0	5.4 +.1,2	4.3	5.5	1.8	0.65 ± 0.1	1.0	0.35 + 0.15/-0.20	
С	5.0	5.4 +.1,2	5.3	6.5	2.2	0.65 ± 0.1	1.5	0.35 + 0.15/-0.20	
D	6.3	5.4 +.1,2	6.6	7.8	2.4	0.65 ± 0.1	1.8	0.35 + 0.15/-0.20	
E	8.0	6.2 ±.3	8.3	9.5	3.4	0.65 ± 0.1	2.2	0.35 + 0.15/-0.20	
F	8.0	10.2 ±.3	8.3	10.0	3.4	0.90 ± 0.2	3.2	0.70 ± 0.20	
G	10.0	10.2 ±.3	10.3	12.0	3.5	0.90 ± 0.2	4.6	0.70 ± 0.20	

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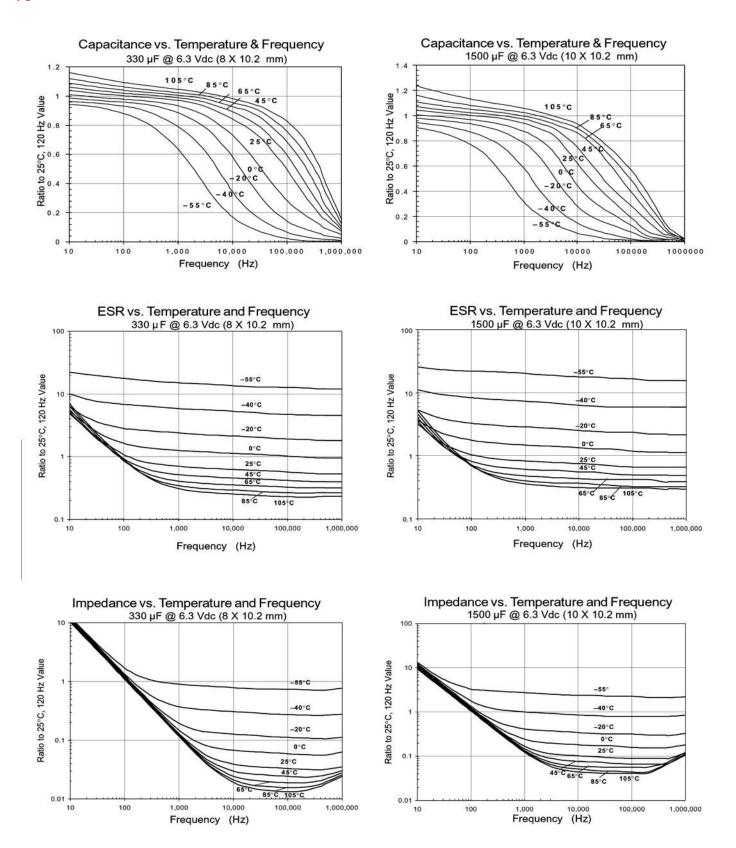
Ratings Table

	шыс		Max.							
Cap (µF)	Catalog Part Number	Max. DCL 2 min (mA)	Dissipatior Factor @ 120 Hz 20 °C	Max. ESR @ 120 Hz20 °C (Ω)	Impedance @ 100 kHz 20 °C (Ω)	Max. Ripple Current @ 105 °C 100 kHz (mA)	Case Code	Size (mm) D x L	Quantity per Reel	
6.3 Vdc (8 Vdc Surge)										
22.0	AFC226M06B12T	3.0	0.26	19.60	3.00	60	В	4 x 5.4	2000	
47.0	AFC476M06C12T	3.0	0.26	9.20	1.80	95	С	5 x 5.4	1000	
100.0	AFC107M06D16T	6.3	0.26	4.30	1.00	140	D	6.3 x 5.4	1000	
220.0 330.0	AFC227M06E16T	13.9	0.26	2.00	0.40	230 450	E F	8 x 6.2	1000 500	
1000.0	AFC337M06F24T AFC108M06G24T	20.8 63.0	0.26 0.26	1.30 0.43	0.30 0.15	450 670	G	8 x 10.2 10 x 10.2	500	
1500.0	AFC158M06G24T	94.5	0.26	0.43	0.15	670	G	10 x 10.2 10 x 10.2	500	
1300.0	AI C 130101000241	34.5	0.20			070		10 X 10.2	300	
10 Vdc (13 Vdc Surge) 33.0 AFC336M10C12T 3.3 0.19 9.60 1.80 95 C 5 x 5.4									1000	
100.0	AFC107M10E16T	10.0	0.19	3.20	0.40	230	E	8 x 6.2	1000	
150.0	AFC157M10E16T	15.0	0.19	2.10	0.40	230	E	8 x 6.2	1000	
220.0	AFC227M10F24T	22.0	0.19	1.40	0.30	450	F	8 x 10.2	500	
470.0	AFC477M10G24T	47.0	0.19	0.67	0.15	670	G	10 x 10.2	500	
1000.0	AFC108M10G24T	100.0	0.22	0.36	0.15	670	G	10 x 10.2	500	
10.0	AFC106M16B12T	2.0	0.46		Vdc Surge)	60		4 x 5.4	2000	
10.0 22.0	AFC226M16C12T	3.0 3.5	0.16 0.16	26.50	3.00 1.80	60 95	B C	4 x 5.4 5 x 5.4	2000 1000	
47.0	AFC476M16D16T	7.5	0.16	12.10 5.70	1.00	140	D	6.3 x 5.4	1000	
68.0	AFC686M16E16T	10.9	0.16	3.90	0.40	230	E	8 x 6.2	1000	
100.0	AFC107M16E16T	16.0	0.16	2.70	0.40	230	Ē	8 x 6.2	1000	
220.0	AFC227M16G24T	35.2	0.16	1.20	0.15	670	Ğ	10 x 10.2	500	
330.0	AFC337M16G24T	52.8	0.16	0.80	0.15	670	G	10 x 10.2	500	
470.0	AFC477M16G24T	75.2	0.16	0.60	0.15	670	G	10 x 10.2	500	
680.0	AFC687M16G24T	108.8	0.16	0.40	0.15	670	G	10 x 10.2	500	
					Vdc Surge)	-				
6.8	AFC685M25B12T	3.0	0.14	34.10	3.00	60	В	4 x 5.4	2000	
22.0	AFC226M25D16T	5.5	0.14	10.60	1.00	140	D	6.3 x 5.4	1000	
33.0	AFC336M25D16T	8.3	0.14	7.00	1.00	140	D E	6.3 x 5.4	1000	
47.0 68.0	AFC476M25E16T AFC686M25F24T	11.8 17.0	0.14 0.14	4.90 3.40	0.40 0.30	230 450	F	8 x 6.2 8 x 10.2	1000 500	
100.0	AFC107M25F24T	25.0	0.14	2.30	0.30	450	F	8 x 10.2	500	
220.0	AFC227M25G24T	55.0	0.14	1.10	0.15	670	G	10 x 10.2	500	
330.0	AFC337M25G24T	82.5	0.14	0.70	0.15	670	Ğ	10 x 10.2	500	
470.0	AFC477M25G24T	117.5	0.14	0.50	0.15	670	G	10 x 10.2	500	
				35 Vdc (44	Vdc Surge)					
1.0	AFC105M35B12T	3.0	0.12	199.00	3.00	60	В	4 x 5.4	2000	
2.2	AFC225M35B12T	3.0	0.12	90.40	3.00	60	В	4 x 5.4	2000	
3.3	AFC335M35B12T	3.0	0.12	60.30	3.00	60	В	4 x 5.4	2000	
4.7	AFC475M35B12T	3.0	0.12	42.40	3.00	60	В	4 x 5.4	2000	
10.0	AFC685M35C12T AFC106M35C12T	3.0	0.12 0.12	29.30 19.90	1.80 1.80	95 95	C	5 x 5.4 5 x 5.4	1000 1000	
22.0	AFC226M35D16T	7.7	0.12	9.10	1.00	140	D	6.3 x 5.4	1000	
33.0	AFC336M35E16T	11.6	0.12	6.00	0.40	230	E	8 x 6.2	1000	
47.0	AFC476M35E16T	16.5	0.12	4.20	0.40	230	Ē	8 x 6.2	1000	
100.0	AFC107M35G24T	35.0	0.12	2.00	0.20	670	G	10 x 10.2	500	
220.0	AFC227M35G24T	77.0	0.12	0.90	0.15	670	G	10 x 10.2	500	
330.0	AFC337M35G24T	115.5	0.12	0.60	0.15	670	G	10 x 10.2	500	
1.0	A F.O.4.0 FN 45.0 D.4.0 T		0.10		Vdc Surge)			4 5 .4		
1.0	AFC105M50B12T	3.0	0.12	199.00	5.00	30	В	4 x 5.4	2000	
2.2	AFC225M50B12T AFC335M50B12T	3.0 3.0	0.12 0.12	90.50 60.30	5.00 5.00	30 30	B	4 x 5.4 4 x 5.4	2000 2000	
3.3 4.7	AFC475M50C12T	3.0	0.12	42.40	3.00	50 50	B C	4 x 5.4 5 x 5.4	1000	
10.0	AFC106M50D16T	5.0	0.12	19.90	2.00	70	D	6.3 x 5.4	1000	
22.0	AFC226M50E16T	11.0	0.12	9.10	0.70	120	E	8 x 6.2	1000	
33.0	AFC336M50F24T	16.5	0.12	6.00	0.60	300	F	8 x 10.2	500	
47.0	AFC476M50G24T	23.5	0.12	4.20	0.30	500	G	10 x 10.2	500	
100.0	AFC107M50G24T	50.0	0.12	2.00	0.30	500	G	10 x 10.2	500	
220.0	AFC227M50G24T	110.0	0.12	0.90	0.30	500	G	10 x 10.2	500	
NT I.	oving System									



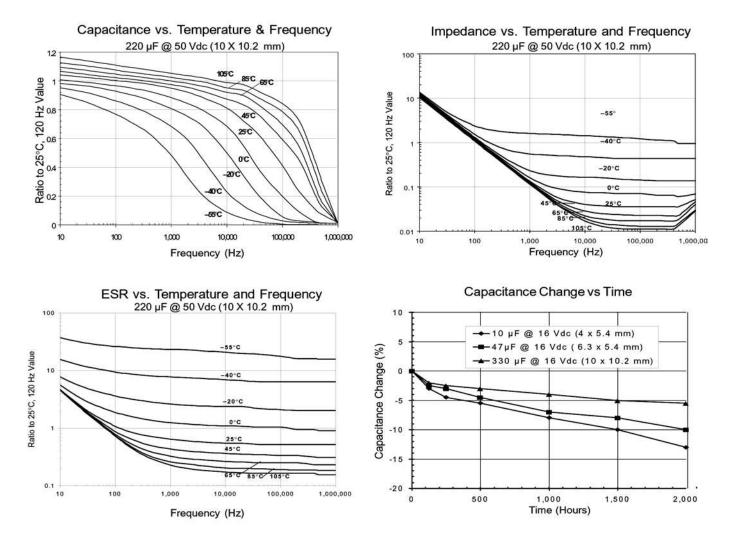
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Typical Performance Curves



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