

AVG

Aluminum Polymer Capacitors

High Temperature



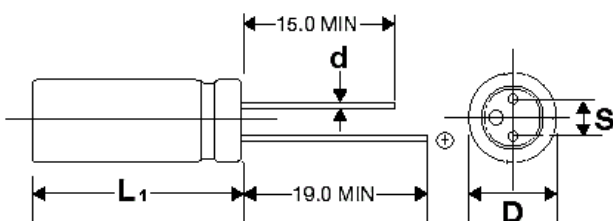
FEATURES

Small size - High temperature - Low ESR - High ripple current - stable with temperature - High frequency

APPLICATIONS

Power Units - LED Lighting - Telecommunications

Operating Temperature Range		-55°C to +125°C							
Capacitance Tolerance		+20% at 120 Hz, 20°C							
Surge Voltage	WVDC	16	25	35	50	63	100	160	
	SVDC	1.15 x rated WVDC							
Dissipation Factor 120 Hz, 20°C		12% MAX							
Leakage Current		2 Minutes							
		See standard part listing							
Low Temperature Stability Impedance Ratio (120 Hz)	-25°C/ +20°C	≤1.15							
	-55°C/ +20°C	≤1.25							
Load Life		2000 hours(1500 Hours for WVDC>35V) at 125°C with rated WVDC applied							
		Capacitance Change			≤30% of initial measured value				
		Dissipation Factor			≤300% of maximum specified value				
		ESR			≤300% of maximum specified value				
		Leakage Current			≤100% of maximum specified value				
Humidity test		1000 hours at 20°C with rated voltage applied at 90-95% R.H.							
		Capacitance Change			≤20% of initial measured value				
		Dissipation Factor			≤150% of maximum specified value				
		ESR			≤150% of maximum specified value				
		Leakage Current			≤100% of maximum specified value				
Surge Voltage test		1000 cycles at 125°C with rated surge voltage applied for 30 seconds through a 1kΩ resistor and discharged for 5 minutes and 30 seconds							
		Capacitance Change			≤20% of initial measured value				
		Dissipation Factor			≤150% of maximum specified value				
		ESR			≤150% of maximum specified value				
		Leakage Current			≤100% of maximum specified value				
Failure Rate		0.5% /1000 hours Maximum (60% confidence level at 125°C)							
Ripple Current Multipliers		Frequency (Hz)							
		120	1k	10k	100k-300K				
		.05	.3	.7	1.0				



D+0.5	8	10
S+0.5	3.5	5.0
d	0.6	0.6

L₁=L+1.5mm MAX

ILLINOIS CAPACITOR

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AVG

+125°C Highest capacitance & Voltage

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum ESR (mΩ) 100 kHz, +20°C	Leakage Current (μA)	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
4.7	160	475AVG160MFBJ	42.3284	130	150	720	8x12
6.8	160	685AVG160MFBJ	29.2564	130	217	720	8x12
12	160	126AVG160MGBJ	16.5786	130	384	960	10x12
15	100	156AVG100MFBJ	13.2629	40	300	1850	8x12
22	100	226AVG100MFBJ	9.0429	40	440	1850	8x12
33	100	336AVG100MGBJ	6.0286	38	660	2100	10x12
47	35	476AVG035MFF	4.2328	30	329	2600	8x8
47	50	476AVG050MFBJ	4.2328	32	470	2250	8x12
47	100	476AVG100MGBJ	4.2328	38	940	2100	10x12
68	35	686AVG035MFF	2.9256	30	476	2600	8x8
68	50	686AVG050MFBJ	2.9256	32	680	2250	8x12
82	50	826AVG050MFBJ	2.4261	32	820	2250	8x12
82	63	826AVG063MFBJ	2.4261	32	1033	2100	8x12
100	25	107AVG025MFF	1.9894	24	500	2900	8x8
100	35	107AVG035MFBJ	1.9894	26	700	2950	8x12
100	63	107AVG063MFBJ	1.9894	32	1260	2100	8x12
120	50	127AVG050MFBJ	1.6579	32	1200	2250	8x12
120	50	127AVG050MGBJ	1.6579	28	1200	2620	10x12
150	25	157AVG025MFF	1.32629	24	750	2900	8x8
150	35	157AVG035MFBJ	1.32629	26	1050	2950	8x12
150	63	157AVG063MGBJ	1.32629	28	1890	2550	10x12
180	35	187AVG035MFBJ	1.1052	26	1260	2950	8x12
180	50	187AVG050MGBJ	1.1052	28	1800	2650	10x12
180	63	187AVG063MGBJ	1.1052	28	2268	2550	10x12
220	25	227AVG025MFBJ	0.90429	18	1100	4250	8x12
220	35	227AVG035MGBJ	0.90429	24	1540	3400	10x12
220	35	227AVG035MFBJ	0.90429	26	1540	2950	8x12
220	50	227AVG050MGBJ	0.90429	28	2200	2620	10x12
330	16	337AVG016MFF	0.60286	15	1056	4300	8x8
330	25	337AVG025MFBJ	0.60286	18	1650	4250	8x12
330	35	337AVG035MGBJ	0.60286	24	2310	3400	10x12
390	35	397AVG035MGBJ	0.5101	24	2730	3400	10x12
470	16	477AVG016MFBJ	0.42328	13	1504	4650	8x12
470	16	477AVG016MFF	0.42328	15	1504	4300	8x8
470	25	477AVG025MFBJ	0.42328	18	2350	4250	8x12
470	25	477AVG025MGBJ	0.42328	16	2350	4700	10x12
560	25	567AVG025MGBJ	0.3553	16	2800	4700	10x12
680	25	687AVG025MGBJ	0.29256	16	3400	4700	10x12
820	16	827AVG016MGBJ	0.24261	12	2624	5600	10x12
820	16	827AVG016MFBJ	0.24261	13	2624	4650	8x12
1000	16	108AVG016MGBJ	0.2	12	3200	5600	10x12
1200	16	128AVG016MGBJ	0.16579	12	3840	5600	10x12
1500	16	158AVG016MGBJ	0.132629	12	4800	5600	10x12