



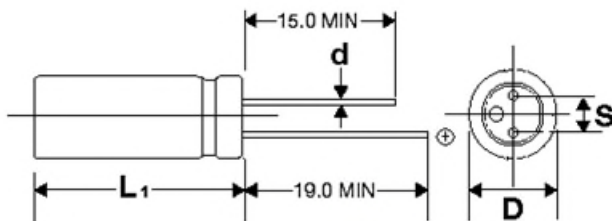
### FEATURES

Small Size - High Temperature – Low ESR – High Ripple Current  
– Stable with Temperature – High Frequency

### APPLICATIONS

Power Units – LED Lighting – Telecommunications

<b>Operating Temperature Range</b>		<b>-55°C to +125°C</b>							
<b>Capacitance Tolerance</b>		<b>+20% at 120 Hz, 20°C</b>							
<b>Surge Voltage</b>	<b>WVDC</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>	<b>63</b>	<b>100</b>	<b>160</b>	
	<b>SVDC</b>	<b>1.15 x rated WVDC</b>							
<b>Dissipation Factor 120 Hz, 20°C</b>		<b>12% MAX</b>							
<b>Leakage Current</b>		<b>2 Minutes</b>							
		See standard part listing							
<b>Low Temperature Stability Impedance Ratio (120 Hz)</b>	<b>-25°C/ +20°C</b>	≤1.15							
	<b>-55°C/ +20°C</b>	≤1.25							
<b>Load Life</b>		<b>2000 hours( 1500 Hours for WVDC&gt;35V) at 125°C with rated WVDC applied</b>							
		<b>Capacitance Change</b>	≤30% of initial measured value						
		<b>Dissipation Factor</b>	≤300% of maximum specified value						
		<b>ESR</b>	≤300% of maximum specified value						
		<b>Leakage Current</b>	≤100% of maximum specified value						
<b>Humidity test</b>		<b>1000 hours at 20°C with rated voltage applied at 90-95% R.H.</b>							
		<b>Capacitance Change</b>	≤20% of initial measured value						
		<b>Dissipation Factor</b>	≤150% of maximum specified value						
		<b>ESR</b>	≤150% of maximum specified value						
		<b>Leakage Current</b>	≤100% of maximum specified value						
<b>Surge Voltage test</b>		<b>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</b>							
		<b>Capacitance Change</b>	≤20% of initial measured value						
		<b>Dissipation Factor</b>	≤150% of maximum specified value						
		<b>ESR</b>	≤150% of maximum specified value						
		<b>Leakage Current</b>	≤100% of maximum specified value						
<b>Failure Rate</b>		<b>0.5% /1000 hours Maximum (60% confidence level at 125°C)</b>							
<b>Ripple Current Multipliers</b>		<b>Frequency (Hz)</b>							
		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

$L_1 = L + 1.5\text{mm MAX}$

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# AVG

## +125°C Highest capacitance & Voltage

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

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