

# ALG

## Aluminum Polymer Capacitors

### High Temperature



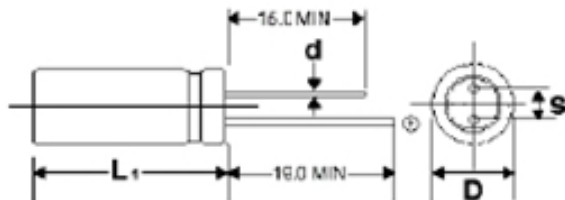
#### FEATURES

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

#### APPLICATIONS

Industrial Power Supplies – Medical Equipment – Automotive

<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>SVDC</b>	1.15 x rated WVDC				
<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>		2000 hours( 1500 Hours for WVDC≥35V) at 125°C with rated WVDC and ripple current applied				
		<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>		1000 hours at 60°C with rated voltage applied at 90-95% R.H.				
		<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>Surge Voltage test</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>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>		0.5% /1000 hours Maximum (60% confidence level at 125°C)				
<b>Ripple Current Multipliers</b>		<b>Frequency (Hz)</b>				
		120	1k	10k	100k	
		.05	.3	.7	1.0	



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

L<sub>1</sub>=L+1.5mm MAX

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# ALG

+125°C Highest capacitance & Voltage, Low ESR

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	470	<a href="#">477ALG016MFBJ</a>	0.42328	11	1504	5100	8x12
16	820	<a href="#">827ALG016MFBF</a>	0.24261	11	2624	5100	8x12
16	1200	<a href="#">128ALG016MGBJ</a>	0.16579	11	3840	6100	10x12
16	1500	<a href="#">158ALG016MGBJ</a>	0.13253	11	4800	6100	10x12
25	220	<a href="#">227ALG025MFBJ</a>	0.9043	16	1350	4750	8x12
25	470	<a href="#">477ALG025MFBJ</a>	0.42328	16	2350	4750	8x12
25	470	<a href="#">477ALG025MGBJ</a>	0.42328	14	2350	5050	10x12
25	680	<a href="#">687ALG025MGBJ</a>	0.2926	14	3400	5050	10x12
35	100	<a href="#">107ALG035MFBJ</a>	1.9894	23	700	3400	8x12
35	150	<a href="#">157ALG035MFBJ</a>	1.3263	23	1050	3400	8x12
35	220	<a href="#">227ALG035MFBJ</a>	0.9043	23	1540	3400	8x12
35	220	<a href="#">227ALG035MGBJ</a>	0.9043	21	1540	3900	10x12
35	330	<a href="#">337ALG035MGBJ</a>	0.6029	21	2310	3900	10x12
50	47	<a href="#">476ALG050MFBJ</a>	4.2328	27	470	2700	8x12
50	82	<a href="#">826ALG050MFBJ</a>	2.4261	27	820	2700	8x12
50	100	<a href="#">107ALG050MFBJ</a>	1.9894	27	1000	2700	8x12
50	120	<a href="#">127ALG050MGBJ</a>	1.6579	25	1200	3100	10x12
50	220	<a href="#">227ALG050MGBJ</a>	0.9043	25	2200	3100	10x12
63	47	<a href="#">476ALG063MFBJ</a>	4.2328	27	592	2700	8x12
63	82	<a href="#">826ALG063MGBJ</a>	2.4261	25	1033	2900	10x12
63	100	<a href="#">107ALG063MFBJ</a>	1.9894	27	1260	2700	8x12
63	150	<a href="#">157ALG063MGBJ</a>	1.3253	25	1890	2900	10x12

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