

GXX

Aluminum Polymer Capacitors

+105°C, 5000 Hour, SMD Surface Mount



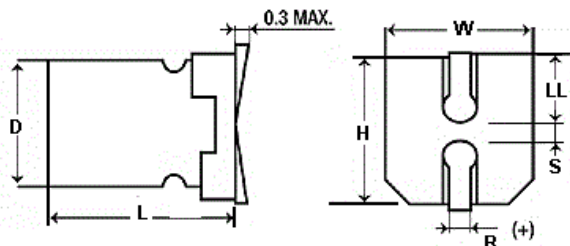
FEATURES

High temperature – Very Low ESR – High ripple current – stable with temperature – High frequency – Long life – ROHS compliant

APPLICATIONS

DC-DC converters – Voltage regulators – Decoupling

Operating Temperature Range		-55°C to +105°C					
Capacitance Tolerance		+20% at 120 Hz, 20°C					
Surge Voltage	WVDC	4	6.3	10	16	20	25
	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 (100 kHz)	-55°C/ +20°C	≤1.25					
	+105°C/ +20°C	≤1.25					
Load Life		5000 hours at 105°C with rated WVDC applied					
		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				
Damp Heat test		1000 hours at 60°C with no 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				
Resistance to Soldering Heat		Capacitors placed on a 230°C hot plate for 5 seconds with their electrode terminations facing downward will fulfill the following conditions after being cooled to room temperature					
		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				
Ripple Current Multipliers		Frequency (Hz)					
		120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f≤500kHz		
		0.05	0.3	0.7	1.0		



D+0.5	W±0.2	H±0.2	LL±0.2	R±0.15	S±0.2
6.3	6.6	6.6	2.1	.65	1.9
8	8.3	8.3	2.8	.95	3.2

ILLINOIS CAPACITOR

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+105°C Low ESR, High Ripple Current

Capacitance (μ F)	WVDC	IC PART NUMBER	Maximum D.F. 120 Hz, 20°C	Maximum ESR (Ω) 120 Hz, +20°C	Maximum ESR (m Ω) 100 kHz, +20°C	Leakage Current (μ A)	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims D $\times$ L (mm)
10	25	106GXX025MFT	0.1	16.5786	60	125	1500	8 $\times$ 6.7
22	20	226GXX050MEY	0.1	7.5358	60	88	1450	6.3 $\times$ 5.7
39	6.3	397GXX6R3MFT	0.12	0.5101	22	491.4	3220	8 $\times$ 6.7
39	16	396GXX016MEY	0.12	5.1011	37	124.8	2050	6.3 $\times$ 5.7
56	4	567GXX004MFT	0.12	0.3553	22	448	3220	8 $\times$ 6.7
68	10	686GXX010MEY	0.12	2.9256	30	136	2200	6.3 $\times$ 5.7
68	16	686GXX016MEY	0.12	2.9256	30	217.6	2200	6.3 $\times$ 5.7
76	20	476GXX020MFT	0.12	4.2328	45	188	1890	8 $\times$ 6.7
86	16	826GXX016MFT	0.12	2.4261	30	262.4	2760	8 $\times$ 6.7
120	6.3	127GXX6R3MEY	0.12	1.6579	22	151.2	2570	6.3 $\times$ 5.7
120	10	127GXX010MEY	0.12	1.6579	27	240	2320	6.3 $\times$ 5.7
120	16	127GXX016MFT	0.12	1.6579	27	384	2900	8 $\times$ 6.7
150	4	157GXX004MEY	0.12	1.3263	22	120	2570	6.3 $\times$ 5.7
150	10	157GXX010MFT	0.12	1.3263	30	300	2760	8 $\times$ 6.7
220	6.3	227GXX6R3MFT	0.12	0.9043	22	277.2	3200	8 $\times$ 6.7
220	6.3	227GXX6R3MEY	0.12	0.9043	22	277.2	2570	6.3 $\times$ 5.7
270	4	277GXX004MFT	0.12	0.4368	22	216	3220	8 $\times$ 6.7