

# GXX

## Aluminum Polymer Capacitors

+105°C, 5000 Hour, SMD Surface Mount



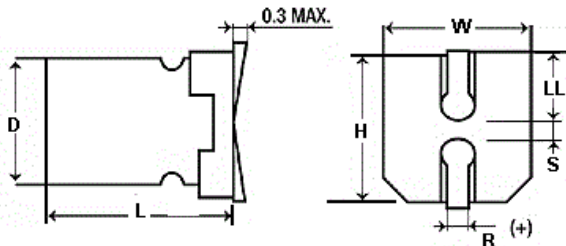
### FEATURES

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

### APPLICATIONS

DC-DC converters – Voltage regulators – Decoupling

<b>Operating Temperature Range</b>		<b>-55°C to +105°C</b>						
<b>Capacitance Tolerance</b>		<b>+20% at 120 Hz, 20°C</b>						
<b>Surge Voltage</b>	<b>WVDC</b>	<b>4</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>20</b>	<b>25</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 (100 kHz)</b>	<b>-55°C/ +20°C</b>	≤1.25						
	<b>+105°C/ +20°C</b>	≤1.25						
<b>Load Life</b>		<b>5000 hours at 105°C with rated WVDC applied</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>Damp Heat test</b>		<b>1000 hours at 60°C with no 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>Resistance to Soldering Heat</b>		<b>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</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>Ripple Current Multipliers</b>		<b>Frequency (Hz)</b>						
		<b>120Hz≤f&lt;1kHz</b>	<b>1kHz≤f&lt;10kHz</b>	<b>10kHz≤f&lt;100kHz</b>	<b>100kHz≤f&lt;500kHz</b>			
		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



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+105°C Low ESR, High Ripple Current

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum D.F. 120 Hz, 20°C	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)
10	25	106GXX025MFT	0.1	16.5786	60	125	1500	8x6.7
22	20	226GXX050MEY	0.1	7.5358	60	88	1450	6.3x5.7
39	6.3	397GXX6R3MFT	0.12	0.5101	22	491.4	3220	8x6.7
39	16	396GXX016MEY	0.12	5.1011	37	124.8	2050	6.3x5.7
56	4	567GXX004MFT	0.12	0.3553	22	448	3220	8x6.7
68	10	686GXX010MEY	0.12	2.9256	30	136	2200	6.3x5.7
68	16	686GXX016MEY	0.12	2.9256	30	217.6	2200	6.3x5.7
76	20	476GXX020MFT	0.12	4.2328	45	188	1890	8x6.7
86	16	826GXX016MFT	0.12	2.4261	30	262.4	2760	8x6.7
120	6.3	127GXX6R3MEY	0.12	1.6579	22	151.2	2570	6.3x5.7
120	10	127GXX010MEY	0.12	1.6579	27	240	2320	6.3x5.7
120	16	127GXX016MFT	0.12	1.6579	27	384	2900	8x6.7
150	4	157GXX004MEY	0.12	1.3263	22	120	2570	6.3x5.7
150	10	157GXX010MFT	0.12	1.3263	30	300	2760	8x6.7
220	6.3	227GXX6R3MFT	0.12	0.9043	22	277.2	3200	8x6.7
220	6.3	227GXX6R3MEY	0.12	0.9043	22	277.2	2570	6.3x5.7
270	4	277GXX004MFT	0.12	0.4368	22	216	3220	8x6.7