



# Aluminum Polymer Capacitors

## General Purpose SMD



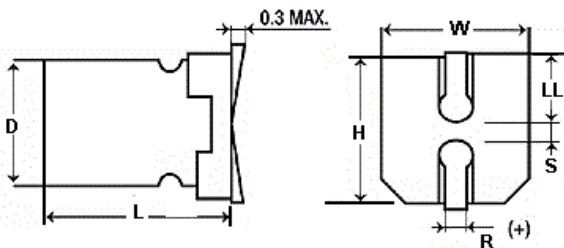
### FEATURES

High temperature – Very Low ESR – High ripple current – stable with temperature – High frequency

### 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>2.5</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>15% MAX</b>						
<b>Leakage Current</b>		<b>2 Minutes</b>						
		0.2CV or 280uA, whichever is greater						
<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>2000 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 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>Resistance to Soldering Heat</b>		<b>Capacitors placed on a 230°C hot plate for 75 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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# UVG

+105°C Low ESR Standard

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) 120 kHz, +105°C	Dims DxL (mm)
22	20	<a href="#">226UVG020MEW</a>	11.3	60	280	1450	6.3x6
47	20	<a href="#">476UVG020MFF</a>	5.29	45	280	1890	8x8
47	25	<a href="#">476UVG025MEW</a>	5.29	70	280	1600	6.3x6
47	25	<a href="#">476UVG025MFE</a>	5.29	45	280	1600	8x10.2
100	20	<a href="#">107UVG020MFBJ</a>	2.49	30	400	2960	8x12
180	16	<a href="#">187UVG016MFBJ</a>	1.38	20	576	3640	8x12
330	2.5	<a href="#">337UVG2R5MEW</a>	0.75	26	280	2247	6.3x6
330	4	<a href="#">337UVG4R0MEW</a>	0.75	21	280	2630	6.3x6
330	10	<a href="#">337UVG010MFBJ</a>	0.75	17	660	3950	8x12
470	6.3	<a href="#">477UVG6R3MFBJ</a>	0.53	15	592	4210	8x12
560	2.5	<a href="#">567UVG2R5MFE</a>	0.44	15	280	4210	8x10.2
560	4	<a href="#">567UVG4R0MFBJ</a>	0.44	15	448	4000	8x12
560	10	<a href="#">567UVG010MFBJ</a>	0.44	17	1120	3950	8x12
680	2.5	<a href="#">687UVG2R5MFBJ</a>	0.37	13	340	4520	8x12
820	6.3	<a href="#">827UVG6R3MFBJ</a>	0.3	15	1033	4210	8x12