



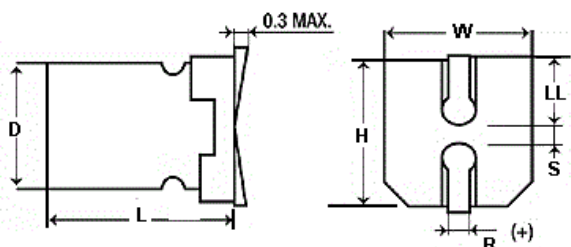
FEATURES

High Temperature – Very Low ESR – High Ripple Current –
Stable with Temperature – High Frequency

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	2.5	4	6.3	10	16	20	25		
	SVDC	1.15 x rated WVDC								
Dissipation Factor 120 Hz, 20°C		15% MAX								
Leakage Current		2 Minutes								
		0.2CV or 280uA, whichever is greater								
Low Temperature Stability Impedance Ratio (100 kHz)	-55°C/ +20°C	≤1.25								
	+105°C/ +20°C	≤1.25								
Load Life		2000 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 rated 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 75 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

UVG

+105°C Low ESR Standard

Capacitance (μ F)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum ESR (m Ω) 100 kHz, +20°C	Leakage Current (μ A)	Maximum RMS Ripple Current (mA) 120 kHz, +105°C	Dims DxL (mm)
22	20	226UVG020MEW	11.3	60	280	1450	6.3x6
47	20	476UVG020MFF	5.29	45	280	1890	8x8
47	25	476UVG025MEW	5.29	70	280	1600	6.3x6
47	25	476UVG025MFE	5.29	45	280	1600	8x10.2
100	20	107UVG020MFBJ	2.49	30	400	2960	8x12
180	16	187UVG016MFBJ	1.38	20	576	3640	8x12
330	2.5	337UVG2R5MEW	0.75	26	280	2247	6.3x6
330	4	337UVG4R0MEW	0.75	21	280	2630	6.3x6
330	10	337UVG010MFBJ	0.75	17	660	3950	8x12
470	6.3	477UVG6R3MFBJ	0.53	15	592	4210	8x12
560	2.5	567UVG2R5MFE	0.44	15	280	4210	8x10.2
560	4	567UVG4R0MFBJ	0.44	15	448	4000	8x12
560	10	567UVG010MFBJ	0.44	17	1120	3950	8x12
680	2.5	687UVG2R5MFBJ	0.37	13	340	4520	8x12
820	6.3	827UVG6R3MFBJ	0.3	15	1033	4210	8x12

Mouser Electronics

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[567UVG4R0MFBJ](#) [687UVG2R5MFBJ](#) [827UVG6R3MFBJ](#)