



FEATURES

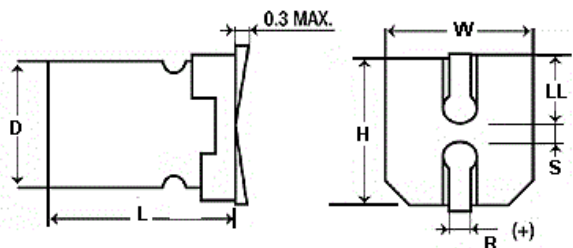
High Temperature – Very Low ESR – High Ripple Current –
Stable with Temperature – High Frequency

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		

Special Order Options



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

WVDC	Capacitance (μ F)	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)
2.5	330	337UVG2R5MEW	0.75	26	280	2247	6.3x6
2.5	560	567UVG2R5MFE	0.44	15	280	4210	8x10.2
2.5	680	687UVG2R5MFBJ	0.37	13	340	4520	8x12
4	330	337UVG4R0MEW	0.75	21	280	2630	6.3x6
4	560	567UVG4R0MFBJ	0.44	15	448	4000	8x12
6.3	470	477UVG6R3MFBJ	0.53	15	592	4210	8x12
6.3	820	827UVG6R3MFBJ	0.3	15	1033	4210	8x12
10	330	337UVG010MFBJ	0.75	17	660	3950	8x12
10	560	567UVG010MFBJ	0.44	17	1120	3950	8x12
16	180	187UVG016MFBJ	1.38	20	576	3640	8x12
20	22	226UVG020MEW	11.3	60	280	1450	6.3x6
20	47	476UVG020MFF	5.29	45	280	1890	8x8
20	100	107UVG020MFBJ	2.49	30	400	2960	8x12
25	47	476UVG025MEW	5.29	70	280	1600	6.3x6
25	47	476UVG025MFE	5.29	45	280	1600	8x10.2