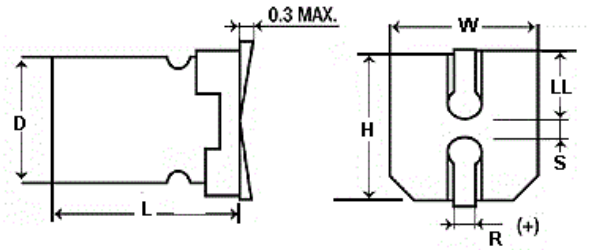
UVR

Aluminum Polymer Capacitors

Low ESR SMD

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**	
	SVDC	1.15 x rated WVDC					
Dissipation Factor 120 Hz, 20°C		**12% 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
10	10.3	10.3	3.1	.95	3.5

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+105°C Low ESR, High Ripple Current

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)
39	16	396UVR016MEW	5.101	50	280	1620	6.3x6
47	6.3	476UVR6R3MEW	4.233	70	500	1600	6.3x6
47	10	476UVR010MEW	4.233	50	280	1620	6.3x6
68	16	686UVR016MEW	2.926	30	280	2200	6.3x6
100	6.3	108UVR6R3MFE	0.1989	15	1260	3500	8x10.2
100	6.3	107UVR6R3MEW	1	50	280	1620	6.3x6
100	16	107UVR016MEW	1.9894	25	320	2700	6.3x6
120	10	127UVR010MEW	1.6579	25	280	2320	6.3x6
150	6.3	157UVR6R3MEW	1.3263	50	280	1620	6.3x6
150	10	157UVR010MEW	1.3263	27	300	2320	6.3x6
150	16	157UVR016MFF	1.3263	22	480	3150	8x8
180	16	187UVR016MFBJ	1.1052	16	576	4040	8x12
220	6.3	227UVR6R3MEW	0.9043	15	280	2450	6.3x6
220	16	227UVR016MFF	0.9043	22	704	3150	8x8
220	16	227UVR016MFE	0.9043	22	704	3450	8x10.2
270	16	277UVR016MFE	0.7368	20	864	3600	8x10.2
270	16	277UVR016MFBJ	0.7368	13	864	5200	8x12
330	2.5	337UVR2R5MEW	0.6029	17	280	2900	6.3x6
330	4	337UVR004MEW	0.6029	17	280	2900	6.3x6
330	6.3	337UVR6R3MEF	0.6029	15	416	2700	6.3x8
330	6.3	337UVR6R3MEW	0.6029	25	416	2200	6.3x6
330	10	337UVR010MFBJ	0.6029	14	660	4390	8x12
330	16	337UVR016MFBJ	0.6029	16	1056	4720	8x12
330	16	337UVR016MGU	0.6029	13	1056	4100	10x12.5
390	2.5	397UVR2R5MEW	0.5101	17	280	3390	6.3x6
470	6.3	477UVR6R3MEK	0.4233	15	582	2700	6.3x9
470	6.3	477UVR6R3MFBJ	0.4233	12	592	4780	8x12
470	10	477UVR010MFBJ	0.4233	25	940	3500	8x12
470	16	477UVR016MFBJ	0.4233	14	1504	4040	8x12
470	16	477UVR016MGU	0.4233	13	1504	4100	10x12.5
560	2.5	567UVR2R5MFE	0.3553	12	280	4210	8x10.2
560	2.5	567UVR2R5MEW	0.3553	16	280	3500	6.3x6
560	4	567UVR004MFE	0.3553	14	544	3950	8x10.2
560	4	567UVR004MFBJ	0.3553	13	448	4520	8x12
560	6.3	567UVR6R3MFF	0.3553	20	706	2500	8x8
560	6.3	567UVR6R3MFBJ	0.3553	12	706	4780	8x12
680	2.5	687UVR2R5MFBJ	0.2926	10	340	5020	8x12
680	4	687UVR004MFF	0.2926	13	544	3950	8x8
680	6.3	687UVR6R3MGE	0.2926	15	857	3500	10x10.2
680	16	687UVR016MGU	0.2926	18	2176	4750	10x12.5
820	2.5	827UVR2R5MFE	0.2426	12	410	4210	8x10.2
820	6.3	827UVR6R3MGU	0.2426	12	1033	4500	10x12.5
820	6.3	827UVR6R3MFBJ	0.2426	12	1033	4260	8x12
1000	2.5	108UVR2R5MFF	0.1989	12	500	4260	8x8
1000	4	108UVR004MGE	0.1989	140	800	4850	10x10.2
1500	6.3	158UVR6R3MGE	0.13263	10	1890	4850	10x10.2
2200	6.3	228UVR6R3MGU	0.0943	12	2772	5250	10x12.5

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