



Aluminum Polymer Capacitors

+105°C Very Low ESR



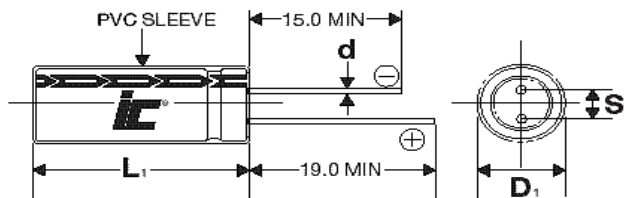
FEATURES

Small Size - High Ripple Current - Super Low ESR

APPLICATIONS

DC-DC Converters - Voltage Regulators - Motherboards
- De-Coupling

Operating Temperature Range		-55°C to +105°C			
Capacitance Tolerance		+20% at 120 Hz, 20°C			
Surge Voltage	WVDC	16	20	25	35
	SVDC	1.15*WVDC			
Dissipation Factor	WVDC	16	20	25	35
	Tan δ	.12 MAX @120 Hz, 20°C			
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 and ripple current 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		
Surge Voltage Life		1000 cycles at 20°C with rated surge voltage applied for 30 seconds through a 1kΩ resistor and discharged for 5 minutes and 30 seconds			
		Capacitance Change	≤20% 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 and 90 to 95% RH with no voltage applied			
		Capacitance Change	≤20% 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)			
		120 Hz ≤ f < 1 kHz	1 kHz ≤ f < 10 kHz	10 kHz ≤ f < 100 kHz	100 kHz ≤ f < 500 kHz
		0.05	0.3	0.7	1.0



DxL	6.3x8	8x8	8x11.5	10x12.5
S	2.5	3.5	3.5	3.0
d	0.6	0.6	0.6	0.6

$L_1 = L + 1.0$ mm Max. ($D \leq 8$ mm)
 $L_1 = L + 1.5$ mm Max. ($D > 8$ mm)
 $D_1 = D + 0.5$ mm Max.
 $S_1 = S + 0.5$ mm

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ULG

+105°C Standard Low ESR

WVDC	Capacitance (µF)	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) 100 kHz, +105°C	Dims DxL (mm)
16	180	187ULG016MFH	1.11	16	576	4360	8x11.5
16	330	337ULG016MGU	0.6	14	1056	5050	10x12.5
20	33	336ULG020MEF	6.03	45	280	1880	6.3x8
20	47	476ULG020MFF	4.23	42	280	1952	8x8
20	100	107ULG020MFH	1.99	34	400	2670	8x11.5
20	150	157ULG020MGU	1.33	35	600	2672	10x12.5
25	22	226ULG025MEF	9.04	55	280	1700	6.3x8
25	33	336ULG025MFF	6.03	50	280	1870	8x8
25	47	476ULG025MFF	4.23	45	280	1940	8x8
25	100	107ULG025MFH	1.99	40	500	2500	8x11.5
25	220	227ULG025MGU	0.9	35	1100	3100	10x12.5
35	47	476ULG035MFF	4.23	90	329	1500	8x6
35	100	107ULG035MGU	1.99	65	700	1870	10x12.5
35	220	227ULG035MGU	0.9	55	1540	2450	10x12.5
35	330	337ULG035MGU	0.6	45	2310	2700	10x12.5