



Low Impedance Aluminum Electrolytic Capacitors

+105°C Low ESR

FEATURES

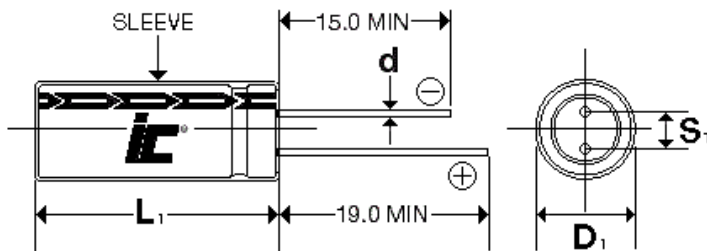
Very Low ESR - High Frequency – High Ripple Current

APPLICATIONS

Bypass – Coupling – Filtering – De-Coupling

Operating Temperature Range		-40°C to +105°C							
Capacitance Tolerance		+20% at 120 Hz, 20°C							
Surge voltage	WVDC	6.3	10	16	25				
	SVDC	7.9	13	20	32				
Dissipation Factor	WVDC	6.3	10	16	25				
	Tan δ	.22	.19	.16	.16				
		Add .02 for every 1000uF above 1000µF							
Leakage current		2 Minutes							
		.03CV or 3uA Whichever is greater							
Low Temperature Stability Impedance Ratio (120 Hz)	WVDC	6.3	10	16	25				
	-25°C to +20°C	2	2	2	2				
	-40°C to +20°C	3	3	3	3				
Load Life	2000 hours at 105°C with rated WVDC and ripple current applied								
	Capacitance Change	≤25% of initial measured value							
	Dissipation Factor	≤200% of maximum specified value							
	Leakage Current	≤100% of maximum specified value							
Shelf Life	1000 hours at 105°C with no voltage applied								
	Capacitance Change	≤25% initial measured value							
	Dissipation Factor	≤200% of maximum specified value							
	Leakage Current	≤100% of maximum specified value							
Ripple Current Multipliers	Frequency (Hz)					Temperature (°C)			
	50	120	1k	10k	100k	+105	+85	+65	
	0.5	0.5	0.8	0.9	1.0	1.0	1.7	2.1	

Special Order Options



D	8	10	12.5
S	3.5	5.0	5.0
d	0.6	0.6	0.6

L₁=L+1.5mm Max
D₁=D+0.5mm Max.
S₁=S+0.5 mm

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JZM

+105°C, Very Low ESR, 2000 hours

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR Ω 120Hz, +25°C	Maximum ESR Ω 100kHz +25°C	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxDL (mm)
6.3	820	827JZM6R3M	0.445	0.036	1160	8x11.5
6.3	1200	128JZM6R3M	0.304	0.028	1630	8x16
6.3	1500	158JZM6R3M	0.265	0.02	1640	10x12.5
6.3	1800	188JZM6R3M	0.221	0.018	1990	10x16
6.3	2200	228JZM6R3M	0.196	0.015	2350	10x20
6.3	3300	338JZM6R3M	0.141	0.012	2890	10x23
6.3	3900	398JZM6R3M	0.119	0.012	3230	10x26
6.3	4700	478JZM6R3M	0.106	0.014	3810	12.5x26
10	680	687JZM010M	0.463	0.036	1200	8x14
10	1000	108JZM010M	0.315	0.028	1540	8x16
10	1000	108JZM010MLN	0.315	0.028	1570	10x12.5
10	1500	158JZM010M	0.232	0.019	1990	8x20

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR Ω 120Hz, +25°C	Maximum ESR Ω 100kHz +25°C	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxDL (mm)
10	1500	158JZM010MLQ	0.232	0.019	2040	10x16
10	1800	188JZM010M	0.193	0.013	2470	10x20
10	2200	228JZM010M	0.173	0.012	2780	10x23
16	470	477JZM016M	0.564	0.036	1100	8x11.5
16	680	687JZM016M	0.39	0.028	1530	8x16
16	680	687JZM016MLN	0.39	0.028	1530	10x12.5
16	1000	108JZM016M	0.265	0.019	2050	8x20
16	1000	108JZM016MLJ	0.265	0.019	2060	10x16
16	1500	158JZM016M	0.232	0.013	2640	10x20
16	1800	188JZM016M	0.166	0.012	3080	10x23
25	470	477JZM025M	0.564	0.019	2030	10x16

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