JZM

+105°C Low Impedance Radial Lead Aluminum Electrolytic Capacitors

Features

- Very low ESR
- High frequency
- High Ripple current

Applications

- Bypass
- Coupling
- Filtering
- De-coupling

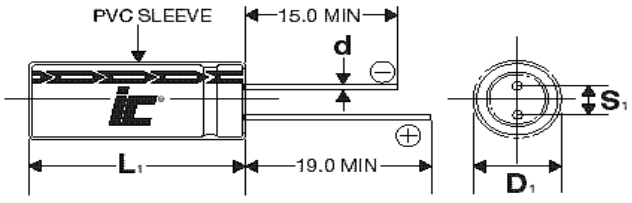
Specifications

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 1000uF				
Leakage current		**2 Minute3** .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



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

L_1=L+1.5mm Max. mm
D_1=D+0.5mm Max.
S_1=S+0.5 mm

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+105°C, Very low ESR 2000 hours

Capacitance (µF)	WVDC	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 DxL (mm)
470	16	477JZM016M	0.564	0.036	1100	8x11.5
470	25	477JZM025M	0.564	0.019	2030	10x16
680	10	687JZM010M	0.463	0.036	1200	8x14
680	16	687JZM016M	0.39	0.028	1530	8x16
680	16	687JZM016MLN	0.39	0.028	1530	10x12.5
820	6.3	827JZM6R3M	0.445	0.036	1160	8x11.5
1000	10	108JZM010M	0.315	0.028	1540	8x16
1000	10	108JZM010MLN	0.315	0.028	1570	10x12.5
1000	16	108JZM016M	0.265	0.019	2050	8x20
1000	16	108JZM016MLJ	0.265	0.019	2060	10x16
1200	6.3	128JZM6R3M	0.304	0.028	1630	8x16
1500	6.3	158JZM6R3M	0.265	0.02	1640	10x12.5

Capacitance (µF)	WVDC	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 DxL (mm)
1500	10	158JZM010M	0.232	0.019	1990	8x20
1500	10	158JZM010MLQ	0.232	0.019	2040	10x16
1500	16	158JZM016M	0.232	0.013	2640	10x20
1800	6.3	188JZM6R3M	0.221	0.018	1990	10x16
1800	10	188JZM010M	0.193	0.013	2470	10x20
1800	16	188JZM016M	0.166	0.012	3080	10x23
2200	6.3	228JZM6R3M	0.196	0.015	2350	10x20
2200	10	228JZM010M	0.173	0.012	2780	10x23
3300	6.3	338JZM6R3M	0.141	0.012	2890	10x23
3900	6.3	398JZM6R3M	0.119	0.012	3230	10x26
4700	6.3	478JZM6R3M	0.106	0.014	3810	12.5x26

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