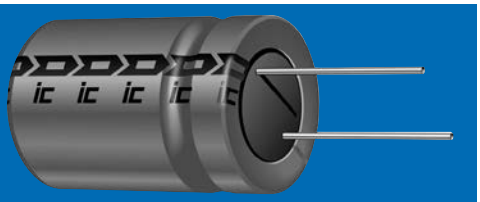
RZS

+105°C High Frequency Radial Lead Aluminum Electrolytic Capacitors



For Switching Power Supplies

FEATURES

- *High Ripple Current*
- *Low Impedance*
- *Low ESL and ESR*
- *100 kHz Operating Frequency Range*
- *Capacitance Range 22 µF to 2,200 µF*
- *Voltage Range 6.3 WVDC to 63 WVDC*
- *Solvent Tolerant End Seals Standard*

SPECIFICATIONS

Capacitance Tolerance		**± 20% at 120Hz, 20°C**						
Operating Temperature Range		**-55°C to +105°C**						
Dissipation Factor 120Hz, 20°C	**WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	**63**
	tan δ	.2	.15	.1	.08	.07	.06	.05
	Note: For above D.F. specifications, add .02 for every 1,000 µf above 1,000 µf							
Impedance Ratio (Max.) @120Hz	**WVDC**	**6.3**	**10**	**16**	**25**	**35**	**50**	**63**
	-55°C/20°C	2.0	1.5	1.5	1.5	1.5	1.5	1.5
Leakage Current	**WVDC**	**≤ 63 WVDC**						
	Time	**2 minutes**						
		.01 CV or 3 µA whichever is greater						
Load Life		**2,000 hours + 105°C with rated voltage**						
		Capacitance change Dissipation factor Leakage current			≤ 20% of initial measured value ≤ 200% of initial specified value ≤ initial specified value			
Shelf Life		1,000 hours at +105°C with no voltage applied.						
		Capacitance change Dissipation factor Leakage current			≤ 20% initial readings ≤ 250% of initial specified value ≤ 200% of initial specified value			

SPECIAL ORDER OPTIONS

(See pages 33 thru 37)

- *Special tolerances: ±10% (K), -10% + 30% (Q)*
- *Tape and Reel*
- *Tape Ammo Pack*
- *Cut, Formed, Cut and Formed and Snap In Leads*
- *Epoxy end seal*
- *Mylar® Polyester Sleeve*

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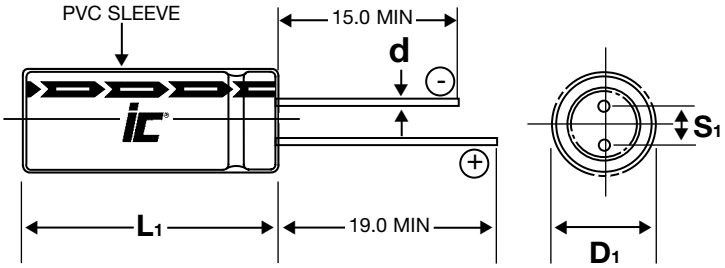
PHYSICAL DIMENSIONS

WVDC (SV) / (µF)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)
22						10x12.5	10x16
33					10x12.5		10x16
47					10x12.5	10x16	10x20
100			10x12.5	10x16	10x20	12.5x20	12.5x25
220	10x12.5		10x16	12.5x20	12.5x25	16x25	16x31.5
330	10x16		10x20	12.5x25	16x25	16x31.5	16x35.5
470	10x20		12.5x20		16x25	16x35.5	
1,000		12.5x25	16x25	16x31.5			
2,200	16x25	16x31.5	16x35.5				

Convert to inches, divide by 25.4

DxL(mm)



NOTE: Case Vent is standard on all diameter ≥8.0mm

LEAD INFORMATION VS. CASE DIAMETER

D	5.0	6.3	8.0	10.0	12.5	16.0
S	2.0	2.5	3.5	5.0	5.0	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8
B	0.5	0.5	0.5	0.5	0.8	0.5

L≤16 $L_1 = L + 1.5$ mm Max.
L>16 $L_1 = L + 2.0$ mm Max.
$D_1 = D + B$ Max.
D =12.5 and L>25, d=0.8
$S_1 = S \pm 0.5$ mm

RZS

+105°C, original standard
"Not for new designs"

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Impedance Ω +20°C/-10°C 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
22	50	226RZS050M	4.521	0.6	150	10x12.5
22	63	226RZS063M	3.768	0.6	200	10x16
33	35	336RZS035M	3.517	0.53	180	10x12.5
33	63	336RZS063M	2.512	0.5	240	10x16
47	35	476RZS035M	2.469	0.53	210	10x12.5
47	50	476RZS050M	2.116	0.5	260	10x16
47	63	476RZS063M	1.764	0.5	310	10x20
100	16	107RZS016M	1.658	0.45	240	10x12.5
100	25	107RZS025M	1.326	0.27	310	10x16
100	35	107RZS035M	1.161	0.23	370	10x20
100	50	107RZS050M	0.995	0.1	450	12.5x20
100	63	107RZS063M	0.829	0.1	540	12.5x25
220	6.3	227RZS6R3M	1.507	0.45	250	10x12.5
220	16	227RZS016M	0.754	0.26	400	10x16
220	25	227RZS025M	0.603	0.14	540	12.5x20
220	35	227RZS035M	0.528	0.1	650	12.5x25
220	50	227RZS050M	0.452	0.08	820	16x25

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Impedance Ω +20°C/-10°C 100kHz	Maximum RMS Ripple Current (mA) 100 kHz, +105°C	Dims DxL (mm)
220	63	227RZS063M	0.377	0.08	1080	16x31.5
330	6.3	337RZS6R3M	1.005	0.27	360	10x16
330	16	337RZS016M	0.502	0.18	520	10x20
330	25	337RZS025M	0.402	0.1	700	12.5x25
330	35	337RZS035M	0.352	0.07	840	16x25
330	50	337RZS050M	0.301	0.05	1030	16x31.5
330	63	337RZS063M	0.251	0.06	1270	16x35.5
470	6.3	477RZS6R3M	0.705	0.23	490	10x20
470	16	477RZS016M	0.353	0.11	700	12.5x20
470	35	477RZS035M	0.247	0.05	1090	16x25
470	50	477RZS050M	0.212	0.05	1350	16x35.5
1000	10	108RZS010M	0.249	0.11	900	12.5x25
1000	16	108RZS016M	0.166	0.09	1150	16x25
1000	25	108RZS025M	0.133	0.06	1320	16x31.5
2200	6.3	228RZS6R3M	0.151	0.07	1090	16x25
2200	10	228RZS010M	0.113	0.05	1520	16x31.5
2200	16	228RZS016M	0.075	0.05	1780	16x35.5

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