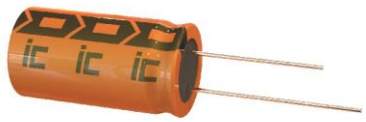
HJR

Radial Lead Aluminum Electrolytic Capacitors

+125°C Long Life



FEATURES

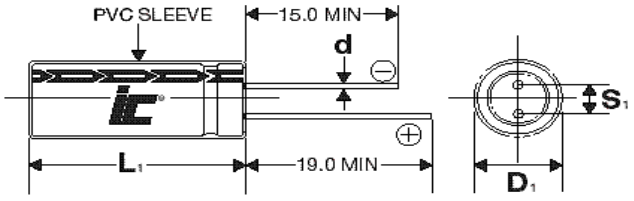
Small Size - High Voltage - General Purpose

APPLICATIONS

Inverters – DC Link – AC/DC Motor Controls – Solar Inverters

Operating Temperature Range		**-40°C to +125°C** **-25°C to +125°C**							
Capacitance Tolerance		**±20% at 120 Hz, 20°C**							
Surge Voltage	**WVDC**	**10**	**16**	**25**	**35**	**50**	**63**	**160-250**	**350-450**
	SVDC	13	20	32	44	63	79	200-300	400-500
Dissipation Factor	**WVDC**	**10**	**16**	**25**	**35**	**50**	**63**	**160-250**	**350-450**
	Tan δ	0.19	0.16	0.14	0.12	0.14	0.14	0.20	0.24
		Add .02 for every 1000uF above 1000uF							
Leakage Current		**10 to 450 WVDC**							
		1 Minutes			**2 Minutes**				
		.03CV or 4uA, Whichever is greater			.01CV or 3uA, Whichever is greater				
Low Temperature Stability Impedance Ratio (120 Hz)	**WVDC**	**10**	**16**	**25**	**35**	**50**	**63**	**160-250**	**350-450**
	-25°C to +20°C	3	2	2	2	2	2	3	6
	-40°C to +20°C	6	4	4	4	4	3	-	-
Load Life		**2000-5000 hours at 125°C with rated 10-63WVDC and ripple current applied**							
		8(D) = 2000hrs			**10(D) = 3000hrs**			**≥13(D) = 5000hrs**	
		Capacitance Change			≤30% of initial measured value				
		Dissipation Factor			≤300% of maximum specified value				
		Leakage Current			≤100% of maximum specified value				
		2000 hours at 125°C with rated 160-450WVDC and ripple current applied							
		Capacitance Change			≤20% of initial measured value				
		Dissipation Factor			≤200% of maximum specified value				
		Leakage Current			≤100% of maximum specified value				
Shelf Life		**1000 hours at 125°C with no voltage applied**							
		Capacitance Change			≤20% of initial measured value				
		Dissipation Factor			≤200% of maximum specified value				
		Leakage Current			≤100% of maximum specified value				

Ripple Current Multipliers		**Frequency (Hz)**				
	WVDC	**Cap**	**120**	**1k**	**10k**	**50k-100k**
	10 to 63V	CAP≤10	0.40	0.75	0.90	1.00
		10<CAP≤100	0.50	0.85	0.95	1.00
		100<CAP≤1000	0.60	0.88	0.96	1.00
		1000<CAP	0.75	0.90	0.98	1.00
	160 to 450V	CAP≤33	1.00	1.50	1.75	1.80
		CAP≥47	1.00	1.30	1.40	1.50



D	**8**	**10**	**12.5**	**16**	**18**
S	3.5	5.0	5.0	7.5	7.5
d	0.6	0.6	0.6	0.8	0.8

L_1=L+2.0 mm Max. mm
D_1=D+0.5mm Max.
S_1=S+0.5 mm

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HJR

+125°C, 2000 hours

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +125°C	Maximum RMS Ripple Current (mA) 100 kHz, +125°C	Dims DxL (mm)
1	350	HJR105M350	397.888	20	0	6.3x11
1	400	HJR105M400	397.888	19	0	6.3x11
1	450	HJR105M450	397.888	20	0	8x11
2.2	250	HJR225M250	150.715	28	0	8x11
2.2	350	HJR225M350	180.858	26	0	8x12
2.2	400	HJR225M400	180.858	24	0	8x11
2.2	450	HJR225M450	180.858	26	0	8x15
3.3	160	HJR335M160	100.477	28	0	8x11
3.3	200	HJR335M200	100.477	28	0	8x11
3.3	250	HJR335M250	100.477	32	0	10x12.5
3.3	350	HJR335M350	120.572	38	0	10x12.5
3.3	400	HJR335M400	120.572	35	0	8x16
3.3	450	HJR335M450	120.572	34	0	10x16
4.7	160	HJR475M160	70.5475	40	0	10x12.5
4.7	200	HJR475M200	70.5475	31	0	8x11
4.7	250	HJR475M250	70.5475	45	0	10x16
4.7	350	HJR475M350	84.657	45	0	10x16
4.7	400	HJR475M400	84.657	53	0	10x20
4.7	450	HJR475M450	84.657	45	0	10x16
10	160	HJR106M160	33.1573	60	0	10x16
10	200	HJR106M200	33.1573	60	0	10x12.5
10	250	HJR106M250	33.1573	78	0	10x20
10	350	HJR106M350	39.7888	66	0	10x16
10	400	HJR106M400	39.7888	73	0	10x20
10	450	HJR106M450	39.7888	86	0	12.5x20
22	160	HJR226M160	15.0715	100	0	10x16
22	200	HJR226M200	15.0715	98	0	10x16
22	250	HJR226M250	15.0715	128	0	12.5x20
22	350	HJR226M350	18.0858	139	0	12.5x25
22	400	HJR226M400	18.0858	142	0	12.5x30
22	450	HJR226M450	18.0858	154	0	16x25
33	160	HJR336M160	10.0477	132	0	10x20
33	200	HJR336M200	10.0477	157	0	12.5x20
33	250	HJR336M250	10.0477	171	0	12.5x25
33	350	HJR336M350	12.0572	189	0	16x25
33	400	HJR336M400	12.0572	189	0	16x25
33	450	HJR336M450	12.0572	203	0	16x32
47	50	HJR476M050	4.9383	0	245	8x11
47	63	HJR476M063	4.9383	0	245	8x11
47	160	HJR476M160	7.0547	187	0	12.5x20
47	200	HJR476M200	7.0547	204	0	12.5x25
47	250	HJR476M250	7.0547	225	0	16x25

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +125°C	Maximum RMS Ripple Current (mA) 100 kHz, +125°C	Dims DxL (mm)
47	350	HJR476M350	8.4657	243	0	16x32
47	400	HJR476M400	8.4657	243	0	16x32
68	160	HJR686M160	4.8761	245	0	12.5x25
68	200	HJR686M200	4.8761	250	0	16x20
68	250	HJR686M250	4.8761	292	0	16x32
100	25	HJR107M025	2.321	0	340	8x11
100	35	HJR107M035	1.9894	0	340	10x12.5
100	50	HJR107M050	2.321	0	415	10x12.5
100	63	HJR107M063	2.321	0	455	10x15
100	160	HJR107M160	3.3157	329	0	16x25
100	200	HJR107M200	3.3157	329	0	16x25
150	160	HJR157M160	2.2105	434	0	16x32
220	10	HJR227M010	1.4318	0	340	8x11
220	16	HJR227M016	1.2057	0	340	8x11
220	25	HJR227M025	1.055	0	500	10x12.5
220	35	HJR227M035	0.9043	0	500	10x16
220	50	HJR227M050	1.055	0	491	10x20
220	63	HJR227M063	1.055	0	665	12.5x20
330	10	HJR337M010	0.9545	0	500	10x12.5
330	16	HJR337M016	0.8038	0	500	10x12.5
330	25	HJR337M025	0.7033	0	630	10x16
330	35	HJR337M035	0.6029	0	770	10x20
330	50	HJR337M050	0.7033	0	665	12.5x20
330	63	HJR337M063	0.7033	0	995	12.5x25
470	10	HJR477M010	0.6702	0	630	10x16
470	16	HJR477M016	0.5644	0	770	10x20
470	25	HJR477M025	0.4938	0	770	10x20
470	35	HJR477M035	0.4233	0	920	12.5x20
470	50	HJR477M050	0.4938	0	995	12.5x25
470	63	HJR477M063	0.4938	0	1000	16x25
1000	10	HJR108M010	0.315	0	770	10x20
1000	16	HJR108M016	0.2653	0	920	12.5x20
1000	25	HJR108M025	0.2321	0	1250	12.5x25
1000	35	HJR108M035	0.1989	0	1380	16x25
1000	50	HJR108M050	0.2321	0	1280	16x32
2200	10	HJR228M010	0.1432	0	1250	12.5x25
2200	16	HJR228M016	0.1206	0	1380	16x25
2200	25	HJR228M025	0.1055	0	1450	16x32
3300	10	HJR338M010	0.0955	0	1380	16x25
3300	16	HJR338M016	0.0804	0	1450	16x32
4700	10	HJR478M010	0.067	0	1450	16x32
4700	16	HJR478M016	0.0564	0	1720	18x32

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