



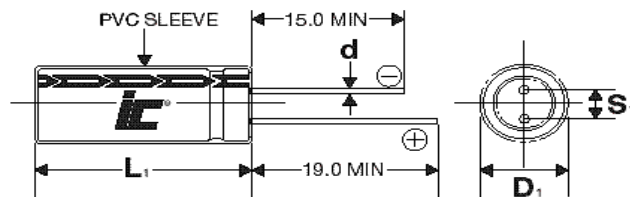
### FEATURES

Small Size - High Voltage - General Purpose

### APPLICATIONS

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

<b>Operating Temperature Range</b>		<b>-40°C to +125°C</b> <b>-25°C to +125°C</b>										
<b>Capacitance Tolerance</b>		<b>+20% at 120 Hz, 20°C</b>										
<b>Surge Voltage</b>	<b>WVDC</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>	<b>63</b>	<b>160-250</b>	<b>350-450</b>			
	<b>SVDC</b>	13	20	32	44	63	79	200-300	400-500			
<b>Dissipation Factor</b>	<b>WVDC</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>	<b>63</b>	<b>160-250</b>	<b>350-450</b>			
	<b>Tan δ</b>	0.19	0.16	0.14	0.12	0.14	0.14	0.20	0.24			
Add .02 for every 1000uF above 1000uF												
<b>Leakage Current</b>		<b>10 to 450 WVDC</b>										
		<b>1 Minutes</b>				<b>2 Minutes</b>						
		.03CV or 4uA, Whichever is greater				.01CV or 3uA, Whichever is greater						
<b>Low Temperature Stability Impedance Ratio (120 Hz)</b>	<b>WVDC</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>	<b>63</b>	<b>160-250</b>	<b>350-450</b>			
	<b>-25°C to +20°C</b>	3	2	2	2	2	2	3	6			
	<b>-40°C to +20°C</b>	6	4	4	4	4	3	-	-			
<b>2000-5000 hours at 125°C with rated 10-63WVDC and ripple current applied</b>												
<b>Load Life</b>		<b>8(D) = 2000hrs</b>			<b>10(D) = 3000hrs</b>			<b>≥13(D) = 5000hrs</b>				
		<b>Capacitance Change</b>					≤30% of initial measured value					
		<b>Dissipation Factor</b>					≤300% of maximum specified value					
		<b>Leakage Current</b>					≤100% of maximum specified value					
<b>2000 hours at 125°C with rated 160-450WVDC and ripple current applied</b>												
<b>Shelf Life</b>		<b>1000 hours at 125°C with no voltage applied</b>										
		<b>Capacitance Change</b>					≤20% of initial measured value					
		<b>Dissipation Factor</b>					≤200% of maximum specified value					
<b>Ripple Current Multipliers</b>		<b>Frequency (Hz)</b>										
		<b>WVDC</b>	<b>Cap</b>		<b>120</b>	<b>1k</b>	<b>10k</b>	<b>50k-100k</b>				
		<b>10 to 63V</b>	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				
<b>160 to 450V</b>	CAP≤33		1.00	1.50	1.75	1.80						
	CAP≥47		1.00	1.30	1.40	1.50						



<b>D</b>	<b>8</b>	<b>10</b>	<b>12.5</b>	<b>16</b>	<b>18</b>
<b>S</b>	3.5	5.0	5.0	7.5	7.5
<b>d</b>	0.6	0.6	0.6	0.8	0.8

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

# 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	25	0	6.3x11
1	400	HJR105M400	397.888	28	0	6.3x11
1	450	HJR105M450	397.888	25	0	8x11
2.2	250	HJR225M250	150.715	28	0	8x11
2.2	350	HJR225M350	180.858	32	0	8x12
2.2	400	HJR225M400	180.858	35	0	8x11
2.2	450	HJR225M450	180.858	32	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	45	0	10x12.5
3.3	400	HJR335M400	120.572	42	0	8x16
3.3	450	HJR335M450	120.572	40	0	10x16
4.7	160	HJR475M160	70.5475	40	0	10x12.5
4.7	200	HJR475M200	70.5475	40	0	8x11
4.7	250	HJR475M250	70.5475	45	0	10x16
4.7	350	HJR475M350	84.657	53	0	10x16
4.7	400	HJR475M400	84.657	53	0	10x20
4.7	450	HJR475M450	84.657	58	0	10x16
10	160	HJR106M160	33.1573	60	0	10x16
10	200	HJR106M200	33.1573	78	0	10x12.5
10	250	HJR106M250	33.1573	78	0	10x20
10	350	HJR106M350	39.7888	85	0	10x16
10	400	HJR106M400	39.7888	86	0	10x20
10	450	HJR106M450	39.7888	86	0	12.5x20
22	160	HJR226M160	15.0715	115	0	10x16
22	200	HJR226M200	15.0715	126	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	154	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	245	0	8x11
47	63	HJR476M063	4.9383	245	0	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	340	0	8x11
100	35	HJR107M035	1.9894	340	0	10x12.5
100	50	HJR107M050	2.321	415	0	10x12.5
100	63	HJR107M063	2.321	455	0	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	340	0	8x11
220	16	HJR227M016	1.2057	340	0	8x11
220	25	HJR227M025	1.055	500	0	10x12.5
220	35	HJR227M035	0.9043	500	0	10x16
220	50	HJR227M050	1.055	491	0	10x20
220	63	HJR227M063	1.055	665	0	12.5x20
330	10	HJR337M010	0.9545	500	0	10x12.5
330	16	HJR337M016	0.8038	500	0	10x12.5
330	25	HJR337M025	0.7033	630	0	10x16
330	35	HJR337M035	0.6029	770	0	10x20
330	50	HJR337M050	0.7033	665	0	12.5x20
330	63	HJR337M063	0.7033	995	0	12.5x25
470	10	HJR477M010	0.6702	630	0	10x16
470	16	HJR477M016	0.5644	770	0	10x20
470	25	HJR477M025	0.4938	770	0	10x20
470	35	HJR477M035	0.4233	920	0	12.5x20
470	50	HJR477M050	0.4938	995	0	12.5x25
470	63	HJR477M063	0.4938	1000	0	16x25
1000	10	HJR108M010	0.315	770	0	10x20
1000	16	HJR108M016	0.2653	920	0	12.5x20
1000	25	HJR108M025	0.2321	1250	0	12.5x25
1000	35	HJR108M035	0.1989	1380	0	16x25
1000	50	HJR108M050	0.2321	1280	0	16x32
2200	10	HJR228M010	0.1432	1250	0	12.5x25
2200	16	HJR228M016	0.1206	1380	0	16x25
2200	25	HJR228M025	0.1055	1450	0	16x32
3300	10	HJR338M010	0.0955	1380	0	16x25
3300	16	HJR338M016	0.0804	1450	0	16x32
4700	10	HJR478M010	0.067	1450	0	16x32
4700	16	HJR478M016	0.0564	1720	0	18x32