

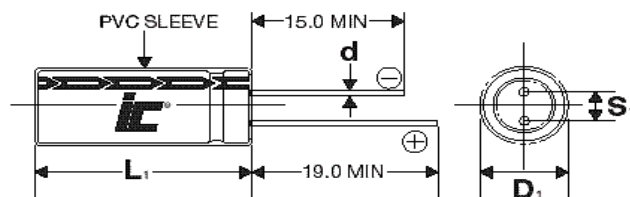
FEATURES

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					
		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.
 $D_1 = D + 0.5$ 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	Dims DxL (mm)
1	350	HJR105M350	0	20	6.3x11
1	400	HJR105M400	0	19	6.3x11
1	450	HJR105M450	0	20	8x11
2.2	250	HJR225M250	0	28	8x11
2.2	350	HJR225M350	0	26	8x12
2.2	400	HJR225M400	0	24	8x11
2.2	450	HJR225M450	0	26	8x15
3.3	160	HJR335M160	0	28	8x11
3.3	200	HJR335M200	0	28	8x11
3.3	250	HJR335M250	0	32	10x12.5
3.3	350	HJR335M350	0	38	10x12.5
3.3	400	HJR335M400	0	35	8x16
3.3	450	HJR335M450	0	34	10x16
4.7	160	HJR475M160	0	40	10x12.5
4.7	200	HJR475M200	0	31	8x11
4.7	250	HJR475M250	0	45	10x16
4.7	350	HJR475M350	0	45	10x16
4.7	400	HJR475M400	0	53	10x20
4.7	450	HJR475M450	0	45	10x16
10	160	HJR106M160	0	60	10x16
10	200	HJR106M200	0	60	10x12.5
10	250	HJR106M250	0	78	10x20
10	350	HJR106M350	0	66	10x16
10	400	HJR106M400	0	73	10x20
10	450	HJR106M450	0	86	12.5x20
22	160	HJR226M160	0	100	10x16
22	200	HJR226M200	0	98	10x16
22	250	HJR226M250	0	128	12.5x20
22	350	HJR226M350	0	139	12.5x25
22	400	HJR226M400	0	142	12.5x30
22	450	HJR226M450	0	154	16x25
33	160	HJR336M160	0	132	10x20
33	200	HJR336M200	0	157	12.5x20
33	250	HJR336M250	0	171	12.5x25
33	350	HJR336M350	0	189	16x25
33	400	HJR336M400	0	189	16x25
33	450	HJR336M450	0	203	16x32
47	50	HJR476M050	0	245	8x11
47	63	HJR476M063	0	245	8x11
47	160	HJR476M160	0	187	12.5x20
47	200	HJR476M200	0	204	12.5x25
47	250	HJR476M250	0	225	16x25

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