



## Radial Lead Aluminum Electrolytic Capacitors

+125°C Standard

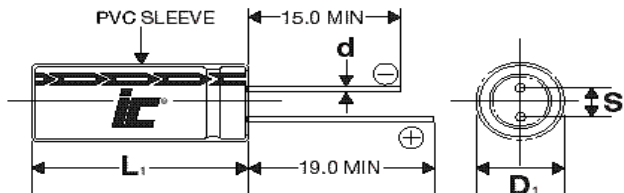
### FEATURES

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>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>SVDC</b>	13	20	32	44	63	79			
<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>Tan δ</b>	.2	.16	.14	.12	.1	.1			
		Add .02 for every 1000uF above 1000uF								
<b>Leakage Current</b>		<b>10 to 63 WVDC</b>								
		<b>1 Minutes</b> .03CV or 4uA, Whichever is greater				<b>2 Minutes</b> .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>-25°C to +20°C</b>	3	2	2	2	2	2			
	<b>-40°C to +20°C</b>	4	4	4	4	4	4			
<b>Load Life</b>		<b>2000 hours at 125°C with rated WVDC and ripple current applied</b>								
		<b>Capacitance Change</b>		≤20% of initial measured value						
		<b>Dissipation Factor</b>		≤200% of maximum specified value						
<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>Temperature (°C)</b>				
		<b>WVDC</b>	<b>50</b>	<b>120</b>	<b>1k</b>	<b>10k</b>	<b>+105</b>	<b>+85</b>	<b>+70</b>	<b>+60</b>
		<b>6.3 to 25V</b>	.85	1.0	1.10	1.20	1.0	1.4	1.4	1.75
		<b>35 to 100V</b>	.8	1.0	1.15	1.25	1.0	1.4	1.4	1.75
		<b>160 to 250V</b>	.75	1.0	1.25	1.40	1.0	1.4	1.4	1.75
<b>350 to 450V</b>	.7	1.0	1.30	1.80	1.0	1.4	1.4	1.75		



<b>D</b>	<b>5</b>	<b>6.3</b>	<b>8</b>	<b>10</b>	<b>12.5</b>	<b>16</b>	<b>18</b>
<b>S</b>	2.0	2.5	3.5	5.0	5.0	7.5	7.5
<b>d</b>	0.5	0.5	0.6	0.6	0.6	0.8	0.8

L<sub>1</sub>=L+1.5mm Max.  
D<sub>1</sub>=D+0.5mm Max.  
S<sub>1</sub>=S+0.5 mm

# HSM

+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	50	<a href="#">105HSM050M</a>	165.786	10	8x11.5
2.2	50	<a href="#">225HSM050M</a>	75.357	22	8x11.5
3.3	50	<a href="#">335HSM050M</a>	50.238	27	8x11.5
4.7	50	<a href="#">475HSM050M</a>	35.274	32	8x11.5
10	50	<a href="#">106HSM050M</a>	16.579	47	8x11.5
22	50	<a href="#">226HSM050M</a>	7.536	70	8x11.5
33	50	<a href="#">336HSM050M</a>	5.024	85	8x11.5
47	50	<a href="#">476HSM050M</a>	3.527	105	8x11.5
47	63	<a href="#">476HSM063M</a>	3.527	120	10x12.5
100	25	<a href="#">107HSM025M</a>	2.321	125	8x11.5
100	50	<a href="#">107HSM050M</a>	1.658	180	10x12.5
100	63	<a href="#">107HSM063M</a>	1.658	200	10x16
220	10	<a href="#">227HSM010M</a>	1.507	155	8x11.5
220	25	<a href="#">227HSM025M</a>	1.055	220	10x12.5
220	35	<a href="#">227HSM035M</a>	0.904	260	10x16
220	50	<a href="#">227HSM050M</a>	0.754	320	10x20
220	63	<a href="#">227HSM063M</a>	0.754	360	12.5x20
330	16	<a href="#">337HSM016M</a>	0.804	250	10x12.5
330	25	<a href="#">337HSM025M</a>	0.703	300	10x16
330	35	<a href="#">337HSM035M</a>	0.603	350	10x20

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)
330	50	<a href="#">337HSM050M</a>	0.502	430	12.5x20
330	63	<a href="#">337HSM063M</a>	0.502	480	12.5x25
470	10	<a href="#">477HSM010M</a>	0.705	270	10x12.5
470	16	<a href="#">477HSM016M</a>	0.564	330	10x16
470	25	<a href="#">477HSM025M</a>	0.494	390	10x20
470	35	<a href="#">477HSM035M</a>	0.423	470	12.5x20
470	50	<a href="#">477HSM050M</a>	0.353	570	12.5x25
470	63	<a href="#">477HSM063M</a>	0.353	650	16x25
1000	10	<a href="#">108HSM010M</a>	0.332	470	10x20
1000	16	<a href="#">108HSM016M</a>	0.265	590	12.5x20
1000	25	<a href="#">108HSM025M</a>	0.232	700	12.5x25
1000	35	<a href="#">108HSM035M</a>	0.199	850	16x25
1000	50	<a href="#">108HSM050M</a>	0.166	1030	16x31.5
2200	10	<a href="#">228HSM010M</a>	0.181	820	12.5x25
2200	16	<a href="#">228HSM016M</a>	0.151	1030	16x25
2200	25	<a href="#">228HSM025M</a>	0.136	1210	16x31.5
3300	10	<a href="#">338HSM010M</a>	0.131	1090	16x25
3300	16	<a href="#">338HSM016M</a>	0.111	1330	16x31.5
4700	10	<a href="#">478HSM010M</a>	0.099	1390	16x31.5