Radial Leaded, General Purpose Aluminum Electrolytic



Type SS is a sub-miniature radial leaded aluminum electrolytic capacitor with a +85 °C, 1000 hour long life rating. The SS has a small size and is ideal for high density packaging applications.

Highlights

- Sub-miniature
- +85 °C
- Great for high density packaging
- Available in T&R and ammo pack

Specifications

Capacitance Range:

Voltage Range:

±20% **Capacitance Tolerance:**

Operating Temperature Range:

DC Leakage Current:

0.1 to 100 µF 6.3 to 63 Vdc

-40 °C to +85 °C After 2 minutes, +25 °C at rated voltage

I = .01CV or 3 μA Max, whichever is greater

 $C = Capacitance in (\mu F)$

V = Rated voltage

Leakage current in μA

Ripple Multipliers for Voltage and Temperature:

Rated	Ripple Multipliers						
WVdc	60 Hz	120 Hz	1 kHz				
6 to 25	0.85	1.0	1.10				
35 to 63	0.80	1.0	1.15				

Ambient	Ripple
Temperature	Multiplier
+85 °C	1.00
+75 °C	1.14
+65 °C	1.25

Dissipation Factor (a) 120 Hz, +20 °C:

Case vented on

WVdc	6.3	10	16	25	35	50	63
DF (%)	24	20	16	14	12	10	10

For capacitors whose capacitance values exceed 1000 µF, the value of DF (%) is increased 2% for every additional 1000 uF



Load Life Test: Apply WVdc for 1,000 hours at +85 °C

Capacitance change within 20% of initial limit

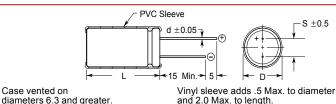
DC leakage current meets initial limits

ESR ≤ 200% of initial value

Shelf Life: 1000 hrs with no voltage applied

> Cap change within 20% of initial values DC leakage meets initial requirement DF 200%, meets initial requirement

Outline Drawing



Dimensions in (millimeters)

Part Numbering System



Ratings

		Max ESR	Max Ripple					
	Catalog	120 Hz	120 Hz		Size	in. (mm)		
Сар	Part Number	+25 °C	+85 °C	Diameter	Length	Lead Space	Lead Dia.	
(µF)		(Ω)	(mA)	(D)	(L)	(S)	(d)	
			6.3 Vdc (8 Vo	Its Surge)				
22	SS220M6R3ST	14.48	34	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)	
33	SS330M6R3ST	9.65	42	.197 (5.0)	.276 (7.0)	.079 (2.0)	.0197 (0.50)	
47	SS470M6R3ST	6.78	50	.197 (5.0)	.276 (7.0)	.079 (2.0)	.0197 (0.50)	
100	SS101M6R3ST	3.18	77	.248 (6.3)	.276 (7.0)	.098 (2.5)	.0197 (0.50)	
10 Vdc (13 Volts Surge)								
22	SS220M010ST	12.06	38	.197 (5.0)	.276 (7.0)	.079 (2.0)	.0197 (0.50)	
33	SS330M010ST	8.04	47	.197 (5.0)	.276 (7.0)	.079 (2.0)	.0197 (0.50)	
47	SS470M010ST	5.65	59	.248 (6.3)	.276 (7.0)	.098 (2.5)	.0197 (0.50)	
100	SS101M010ST	2.65	80	.248 (6.3)	.276 (7.0)	.098 (2.5)	.0197 (0.50)	
		1	16 Vdc (20 Vc	olts Surge)				
10	S\$100M016ST	22.56	29	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)	
22	\$\$220M016\$T	10.25	44	.197 (5.0)	.276 (7.0)	.079 (2.0)	.0197 (0.50)	
33	SS330M016ST	6.84	57	.197 (5.0)	.276 (7.0)	.079 (2.0)	.0197 (0.50)	
47	SS470M016ST	4.80	68	.248 (6.3)	.276 (7.0)	.098 (2.5)	.0197 (0.50)	
25 Vdc (32 Volts Surge)								
4.7	SS4R7M025ST	42.35	24	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)	
10	SS100M025ST	19.9	33	.197 (5.0)	.276 (7.0)	.079 (2.0)	.0197 (0.50)	
22	SS220M025ST	9.05	51	.236 (6.0)	.276 (7.0)	.098 (2.5)	.0197 (0.50)	
33	SS330M025ST	6.03	63	.236 (6.0)	.276 (7.0)	.098 (2.5)	.0197 (0.50)	
47	SS470M025ST	4.23	71	.248 (6.3)	.276 (7.0)	.098 (2.5)	.0197 (0.50)	

Ratings

		Max ESR	Max Ripple						
	Catalog	120 Hz	120 Hz	Size in. (mm)					
Сар	Part Number	+25 °C	+85 °C	Diameter	Length	Lead Space	Lead Dia.		
(µF)		(Ω)	(mA)	(D)	(L)	(S)	(d)		
	35 Vdc (44 Volts Surge)								
4.7	SS4R7M035ST	33.88	24	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
10	SS100M035ST	15.92	36	.197 (5.0)	.276 (7.0)	.079 (2.0)	.0197 (0.50)		
22	SS220M035ST	7.24	57	.248 (6.3)	.276 (7.0)	.098 (2.5)	.0197 (0.50)		
			50 Vdc (63 Vd	olts Surge)					
0.10	SSR10M050ST	1326.96	1	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
0.22	SSR22M050ST	603.17	2	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
0.33	SSR33M050ST	402.11	3	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
0.47	SSR47M050ST	282.33	5	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
1.0	SS010M050ST	132.70	10	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
2.2	SS2R2M050ST	60.32	19	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
3.3	SS3R3M050ST	40.21	24	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
4.7	SS4R7M050ST	28.23	29 🛕	.157 (4.0)	.276 (7.0)	.079 (2.0)	.0180 (0.45)		
10.0	SS100M050ST	13.27	44	.197 (5.0)	.276 (7.0)	.079 (2.0)	.0197 (0.50)		
			63 Vdc (79 Vd	olts Surge)					
0.10	SSR10M063ST	1061.57	1	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
0.22	SSR22M063ST	482.53	2	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
0.33	SSR33M063ST	321.69	4	,157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
0.47	SSR47M063ST	225.87	6	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
1.0	SS010M063ST	106.16	13	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
2.2	SS2R2M063ST	48.25	21	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
3.3	SS3R3M063ST	32.17	26	.157 (4.0)	.276 (7.0)	.059 (1.5)	.0180 (0.45)		
4.7	SS4R7M063ST	22.59	33	.248 (6.3)	.276 (7.0)	.098 (2.5)	.0197 (0.50)		

Parts highlighted in yellow are obsolete

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