

# STF

## +105°C, 5mm Height Low Profile Radial Lead Aluminum Electrolytic Capacitors



### Features

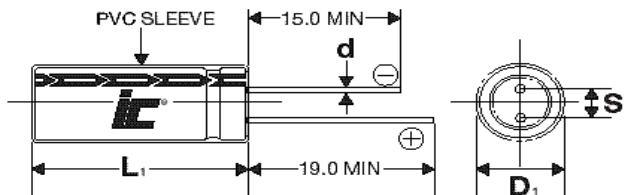
- Standard case sizes
- Low Profile
- Lead free leads

### Applications

- Bypass
- Coupling
- Filtering
- De-coupling

### Specifications

<b>Operating Temperature Range</b>		<b>-55°C to +105°C</b>									
<b>Capacitance Tolerance</b>		<b>+20% at 120 Hz, 20°C</b>									
<b>Surge voltage</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>				
	<b>SVDC</b>	7.9	13	20	32	44	63				
<b>Dissipation Factor</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>				
	<b>Tan δ</b>	.28	.24	.2	.16	.13	.12				
<b>Leakage current</b>		<b>2 Minutes</b>									
		.01CV or 3uA, Whichever is greater									
<b>Low temperature stability Impedance ratio (120 Hz)</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>				
	<b>-25°C to +20°C</b>	3	3	2	2	2	2				
	<b>-40°C to +20°C</b>	6	5	4	3	3	3				
<b>Load Life</b>		<b>1000 hours at 105°C with rated WVDC and ripple current applied</b>									
		<b>Capacitance change</b>	≤20% of initial measured value								
		<b>Dissipation factor</b>	≤150% of maximum specified value								
		<b>Leakage current</b>	≥100% of maximum specified value								
<b>Shelf Life</b>		<b>1000 hours at 105°C with no voltage applied</b>									
		<b>Capacitance change</b>	≤20% initial measured value								
		<b>Dissipation factor</b>	≤200% of maximum specified value								
		<b>Leakage current</b>	≥100% of maximum specified value								
<b>Ripple Current Multipliers</b>		<b>Frequency (Hz)</b>					<b>Temperature (°C)</b>				
		<b>50</b>	<b>120</b>	<b>400</b>	<b>1k</b>	<b>10k</b>	<b>100k</b>	<b>+105</b>	<b>+85</b>		<b>+60</b>
		.8	1.0	1.3	1.45	1.65	1.7	1.0	1.4		1.75



D+0.5	4	5	6.3
S	1.5	2.0	2.5
d	.45	0.5	0.5

$L_1 = L + 1.5\text{mm Max.}$  mm  
 $D_1 = D + 0.5\text{mm Max.}$   
 $S_1 = S + 0.5\text{ mm}$



# STF

+105°C, 5mm height General  
purpose, 1000 hours

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +105°C	Dims DxL (mm)
0.1	50	<a href="#">104STF050M</a>	1989.44	2	4x5
0.22	50	<a href="#">224STF050M</a>	904.29	4	4x5
0.33	50	<a href="#">334STF050M</a>	602.86	4	4x5
0.47	50	<a href="#">474STF050M</a>	423.28	5	4x5
1	50	<a href="#">105STF050M</a>	198.94	8	4x5
2.2	50	<a href="#">225STF050M</a>	90.43	11	4x5
3.3	50	<a href="#">335STF050M</a>	60.286	14	4x5
4.7	35	<a href="#">475STF035M</a>	45.856	15	4x5
4.7	50	<a href="#">475STF050M</a>	42.328	19	5x5
10	16	<a href="#">106STF016M</a>	33.157	19	4x5

Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR (mΩ) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +105°C	Dims DxL (mm)
10	35	<a href="#">106STF035M</a>	21.55	25	5x5
10	50	<a href="#">106STF050M</a>	19.894	31	6.3x5
22	6.3	<a href="#">226STF6R3M</a>	21.1	23	4x5
22	16	<a href="#">226STF016M</a>	15.072	32	5x5
22	35	<a href="#">226STF035M</a>	9.8	42	6.3x5
33	10	<a href="#">336STF010M</a>	12.057	35	5x5
33	25	<a href="#">336STF025M</a>	8.038	48	6.3x5
47	6.3	<a href="#">476STF6R3M</a>	9.877	38	5x5
47	16	<a href="#">476STF016M</a>	7.055	55	6.3x5
100	6.3	<a href="#">107STF6R3M</a>	4.642	65	6.3x5