

### GENERAL TECHNICAL CHARACTERISTICS

Dielectric : Polypropylene film  
 Construction : Extended metallized film  
 with internal series connection  
 Case : Solvent resistant plastic case with resin sealing .  
 Flame retardant execution (UL94V-0) .  
 Leads: Tinned copper lugs for screw fixing  
 or soldering on PCBS

### ELECTRICAL CHARACTERISTICS

Working temperature : - 40 to + 85 °C  
 Capacitance : 0.068 to 14µF  
 Rated Voltage : 700 to 3000 Vdc  
 Tolerance : ± 5%, ± 10%  
 Dissipation factor: Measured at 1000±20 Hz AND 25±5°C.  
 When Cr≤1.0µF, 5×10<sup>-4</sup>;  
 When Cr>1.0µF, 6×10<sup>-4</sup>

### TEST METHODS AND PERFORMANCES

Dielectric strength: 2Ur (DC) applied for 10s at 25±5°C  
 (1 minute for type test)  
 Insulation resistance : 3000s but need not exceed 30GΩ  
 (typical value), after 1 minute of  
 electrification at 100Vdc (25±5°C)



### Electrical specifications, ordering codes

Part Number	Cap (µF)	Dimension (mm)			du/dt (v/µs)	Ipeak A	Irms max. (A)	ESR (mΩ)
		L	B	H				
<b>Ur 700Vdc, Urms 380Vac, Upk 1000Vdc</b>								
STF-700-1.5-*P#	1.5	42.5	24.5	27.5	132	198	15.0	3.6
STF-700-1.5-*S#	1.5	42.5	17.0	28.0	132	198	14.5	3.6
STF-700-2.0-*P#	2.0	42.5	33.5	35.5	132	264	16.0	3.1
STF-700-2.0-*S#	2.0	42.5	22.0	30.0	132	264	15.5	3.1
STF-700-3.0-*P#	3.0	42.5	33.5	35.5	132	396	20.0	2.6
STF-700-3.0-*S#	3.0	42.5	28.0	37.0	132	396	19.5	2.6
STF-700-3.3-*P#	3.3	42.5	33.5	35.5	132	436	21.0	2.5
STF-700-3.3-*S#	3.3	42.5	28.0	37.0	132	436	20.5	2.5
STF-700-4.0-*P#	4.0	42.5	33.5	35.5	132	528	23.0	2.2
STF-700-4.0-*S#	4.0	42.5	28.0	37.0	132	528	22.0	2.2
STF-700-4.7-*P#	4.7	42.5	33.0	45.0	132	620	26.0	1.9
STF-700-4.7-*S#	4.7	42.5	30.0	45.0	132	620	25.5	1.9
STF-700-5.0-*P#	5.0	42.5	33.0	45.0	132	660	26.0	1.9
STF-700-5.0-*S#	5.0	42.5	30.0	45.0	132	660	15.5	1.9
STF-700-5.6-*P#	5.6	42.5	33.0	45.0	132	739	27.0	1.8
STF-700-6.8-*P#	6.8	57.5	30.0	45.0	90	612	27.0	2.3
STF-700-8.2-*P#	8.2	57.5	35.0	50.0	90	738	32.0	2.1
STF-700-10-*P#	10	57.5	35.0	50.0	90	900	32.0	1.9
STF-700-14-*S#	14	57.5	42.5	56.0	90	1260	35.0	1.7
<b>Ur 850Vdc, Urms 450Vac, Upk 1200Vdc</b>								
STF-850-1.2-*P#	1.2	42.5	24.5	27.5	200	240	15.0	3.3
STF-850-1.2-*S#	1.2	42.5	17.0	28.0	200	240	14.5	3.3
STF-850-1.5-*S#	1.5	42.5	22.0	30.0	200	300	18.0	3.0
STF-850-2.0-*P#	2.0	42.5	33.5	35.5	200	400	21.0	2.7
STF-850-2.0-*S#	2.0	42.5	28.0	37.0	200	400	20.5	2.7
STF-850-2.2-*P#	2.2	42.5	33.5	35.5	200	440	23.0	2.3
STF-850-2.2-*S#	2.2	42.5	28.0	37.0	200	440	22.5	2.3
STF-850-2.5-*P#	2.5	42.5	33.5	35.5	200	500	24.0	2.1

### Electrical specifications, ordering codes

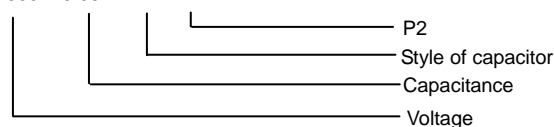
Part Number	Cap (uF)	Dimension (mm)			du/dt (v/us)	Ipeak (A)	Irms max. (A)	ESR (mΩ)
		r	p	W				
STF-850-2.5-*S#	2.5	42.5	28.0	37.0	200	500	24.0	2.1
STF-850-2.7-*P#	2.7	42.5	33.5	35.5	200	540	24.0	2.0
STF-850-2.7-*S#	2.7	42.5	28.0	37.0	200	540	23.5	2.0
STF-850-3.0-*P#	3.0	42.5	33.5	35.5	200	600	26.0	1.9
STF-850-3.3-*P#	3.3	42.5	33.0	45.0	200	660	27.0	1.8
STF-850-3.3-*S#	3.3	42.5	30.0	45.0	200	660	26.5	1.8
STF-850-4.0-*P#	4.0	42.5	33.0	45.0	200	800	28.0	1.7
STF-850-4.7-*P#	4.7	57.5	30.0	45.0	110	517	27.0	2.2
STF-850-5.0-*P#	5.0	57.5	30.0	45.0	110	550	28.0	2.2
STF-850-5.6-*P#	5.6	57.5	35.0	50.0	110	616	32.0	1.9
STF-850-6.8-*P#	6.8	57.5	35.0	50.0	110	748	32.0	1.8
STF-850-10-*S#	10	57.5	42.5	56.0	110	1100	42.0	1.2
<b>Ur 1000Vdc, Urms 480Vac, Upk 1400Vdc</b>								
STF-1000-1.0-*P#	1.0	42.5	24.5	27.5	225	225	15.0	3.3
STF-1000-1.0-*S#	1.0	42.5	22.0	30.0	225	225	14.5	3.3
STF-1000-1.5-*S#	1.5	42.5	28.0	37.0	225	338	20.0	2.7
STF-1000-2.0-*P#	2.0	42.5	33.5	35.5	225	450	23.0	2.1
STF-1000-2.0-*S#	2.0	42.5	28.0	37.0	225	450	22.5	2.1
STF-1000-2.5-*P#	2.5	42.5	33.0	45.0	225	563	27.0	1.8
STF-1000-2.5-*S#	2.5	42.5	30.0	45.0	225	563	26.5	1.8
STF-1000-3.3-*P#	3.3	57.5	30.0	45.0	130	429	26.0	2.4
STF-1000-4.7-*P#	4.7	57.5	35.0	50.0	130	611	32.0	1.9
STF-1000-6.8-*S#	6.8	57.5	42.5	56.0	130	884	41.0	1.3
<b>Ur 1200Vdc, Urms 500Vac, Upk 1600Vdc</b>								
STF-1200-0.68-*P#	0.68	42.5	24.5	27.5	225	153	13.0	4.1
STF-1200-0.68-*S#	0.68	42.5	22.0	30.0	225	153	12.5	4.1
STF-1200-1.0-*S#	1.0	42.5	28.0	37.0	225	225	17.0	3.2
STF-1200-1.5-*P#	1.5	42.5	33.5	35.5	225	338	21.0	2.6
STF-1200-1.5-*S#	1.5	42.5	28.0	37.0	225	338	20.5	2.6
STF-1200-2.0-*P#	2.0	42.5	33.0	45.0	225	450	26.0	2.0
STF-1200-2.0-*S#	2.0	42.5	30.0	45.0	225	450	25.5	2.0
STF-1200-2.2-*P#	2.2	42.5	33.0	45.0	225	495	27.0	1.9
STF-1200-2.2-*S#	2.2	42.5	30.0	45.0	225	495	26.5	1.9
STF-1200-2.5-*P#	2.5	57.5	30.0	45.0	150	375	26.0	2.4
STF-1200-2.5-*S#	2.5	42.5	33.0	45.0	225	563	28.0	1.8
STF-1200-3.0-*P#	3.0	57.5	35.0	50.0	150	450	30.0	2.1
STF-1200-3.3-*P#	3.3	57.5	35.0	50.0	150	495	31.0	2.0
STF-1200-3.5-*S#	3.5	57.5	35.0	50.0	150	525	32.0	1.9
STF-1200-5.6-*S#	5.6	57.5	42.5	56.0	150	840	38.0	1.5
<b>Ur 1500Vdc, Urms 575Vac, Upk 2000Vdc</b>								
STF-1500-0.33-*P#	0.33	42.5	24.5	27.5	225	74	12.0	5.6
STF-1500-0.33-*S#	0.33	42.5	17.0	28.0	225	74	11.5	5.6
STF-1500-0.47-*P#	0.47	42.5	24.5	27.5	225	106	13.0	4.5
STF-1500-0.47-*S#	0.47	42.5	18.0	31.5	225	106	12.5	4.5
STF-1500-0.68-*P#	0.68	42.5	33.5	35.5	225	153	18.0	3.8
STF-1500-0.68-*S#	0.68	42.5	28.0	37.0	225	153	17.5	3.8
STF-1500-1.0-*P#	1.0	42.5	33.5	35.5	225	225	21.0	2.6
STF-1500-1.2-*P#	1.2	42.5	33.0	45.0	225	270	25.0	2.1
STF-1500-1.2-*S#	1.2	42.5	30.0	45.0	225	270	24.5	2.1
STF-1500-1.5-*P#	1.5	57.5	30.0	45.0	150	225	23.0	3.1
STF-1500-2.0-*P#	2.0	57.5	35.0	50.0	150	300	27.0	2.3
STF-1500-2.2-*P#	2.2	57.5	35.0	50.0	150	330	28.0	2.5
STF-1500-3.5-*S#	3.5	57.5	42.5	56.0	150	525	35.0	1.6
<b>Ur 2000Vdc, Urms 630Vac, Upk 2400Vdc</b>								
STF-2000-0.22-*P#	0.22	42.5	24.5	27.5	410	90	11.0	6.4

### Electrical specifications, ordering codes

Part Number	Cap (µF)	Dimension (mm)			du/dt (v/µs)	Ipeak A	Irms max. (A)	ESR (mΩ)
		L	B	H				
STF-2000-0.22-*S#	0.22	42.5	15.0	26.0	410	90	10.5	6.4
STF-2000-0.33-*P#	0.33	42.5	24.5	27.5	410	135	12.0	5.7
STF-2000-0.33-*S#	0.33	42.5	22.0	30.0	410	135	11.5	5.7
STF-2000-0.47-*P#	0.47	42.5	33.5	35.5	410	193	17.0	3.8
STF-2000-0.47-*S#	0.47	42.5	28.0	37.0	410	193	16.5	3.8
STF-2000-0.56-*P#	0.56	42.5	33.5	35.5	410	230	18.0	3.4
STF-2000-0.56-*S#	0.56	42.5	28.0	37.0	410	230	17.5	3.4
STF-2000-0.68-*P#	0.68	42.5	33.0	45.0	410	279	22.0	3.0
STF-2000-0.68-*S#	0.68	42.5	30.0	45.0	410	279	21.5	3.0
STF-2000-0.82-*P#	0.82	42.5	33.0	45.0	410	336	22.0	2.7
STF-2000-0.82-*S#	0.82	42.5	30.0	45.0	410	336	21.5	2.7
STF-2000-1.0-*P#	1.0	57.5	30.0	45.0	225	225	22.0	3.5
STF-2000-1.2-*S#	1.2	57.5	30.0	45.0	225	270	23.0	3.3
STF-2000-1.5-*P#	1.5	57.5	35.0	50.0	225	338	26.0	2.8
STF-2000-2.5-*S#	2.5	57.5	42.5	56.0	225	563	38.0	1.5
<b>Ur 2500Vdc, Urms 700Vac, Upk 3000Vdc</b>								
STF-2500-0.12-*P#	0.12	42.5	24.5	27.5	550	66	8.0	10.3
STF-2500-0.12-*S#	0.12	42.5	15.0	26.0	550	66	7.5	10.3
STF-2500-0.15-*P#	0.15	42.5	24.5	27.5	550	83	10.0	8.5
STF-2500-0.15-*S#	0.15	42.5	17.0	28.0	550	83	9.5	8.5
STF-2500-0.18-*P#	0.18	42.5	24.5	27.5	550	99	11.0	7.3
STF-2500-0.18-*S#	0.18	42.5	18.0	31.5	550	99	10.5	7.3
STF-2500-0.22-*P#	0.22	42.5	33.5	35.5	550	121	14.0	6.1
STF-2500-0.22-*S#	0.22	42.5	22.0	30.0	550	121	13.5	6.1
STF-2500-0.33-*P#	0.33	42.5	33.5	35.5	550	182	16.0	4.5
STF-2500-0.33-*S#	0.33	42.5	28.0	37.0	550	182	15.5	4.5
STF-2500-0.39-*P#	0.39	42.5	33.5	35.5	550	215	17.0	4.0
STF-2500-0.47-*P#	0.47	42.5	33.0	45.0	550	259	20.0	3.5
STF-2500-0.47-*S#	0.47	42.5	30.0	45.0	550	259	19.5	3.5
STF-2500-0.56-*P#	0.56	42.5	33.0	45.0	550	308	21.0	3.1
STF-2500-0.68-*P#	0.68	57.5	30.0	45.0	290	197	21.0	3.9
STF-2500-1.0-*P#	1.0	57.5	35.0	50.0	290	290	25.0	3.1
STF-2500-1.5-*S#	1.5	57.5	42.5	56.0	290	435	30.0	2.1
<b>Ur 3000Vdc, Urms 750Vac, Upk 3500Vdc</b>								
STF-3000-0.068-*P#	0.068	42.5	24.5	27.5	750	51	7.0	14.8
STF-3000-0.068-*S#	0.068	42.5	15.0	26.0	750	51	6.5	14.8
STF-3000-0.10-*P#	0.10	42.5	24.5	27.5	750	75	8.0	10.2
STF-3000-0.10-*S#	0.10	42.5	17.0	28.0	750	75	7.5	10.2
STF-3000-0.12-*P#	0.12	42.5	33.5	35.5	750	90	11.0	8.9
STF-3000-0.12-*S#	0.12	42.5	22.0	30.0	750	90	10.5	8.9
STF-3000-0.15-*P#	0.15	42.5	33.5	35.5	750	113	13.0	7.3
STF-3000-0.15-*S#	0.15	42.5	28.0	37.0	750	113	12.5	7.3
STF-3000-0.18-*P#	0.18	42.5	33.5	35.5	750	135	14.0	6.3
STF-3000-0.18-*S#	0.18	42.5	28.0	37.0	750	135	13.5	6.3
STF-3000-0.22-*P#	0.22	42.5	33.0	45.0	750	165	16.0	5.3
STF-3000-0.22-*S#	0.22	42.5	28.0	37.0	750	165	15.5	5.3
STF-3000-0.33-*P#	0.33	42.5	33.0	45.0	750	248	19.0	4.2
STF-3000-0.39-*P#	0.39	57.5	30.0	45.0	370	144	19.0	5.2
STF-3000-0.47-*P#	0.47	57.5	35.0	50.0	370	174	21.0	4.6
STF-3000-0.56-*P#	0.56	57.5	35.0	50.0	370	207	22.0	4.1
STF-3000-1.0-*S#	1.0	57.5	42.5	56.0	370	370	28.0	3.0

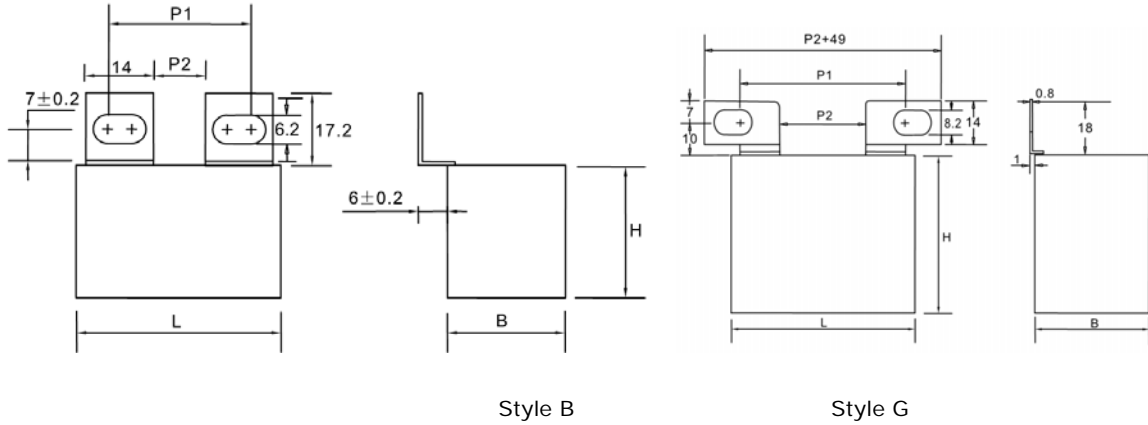
How to Order:

STF-2500-0.68-\*P#



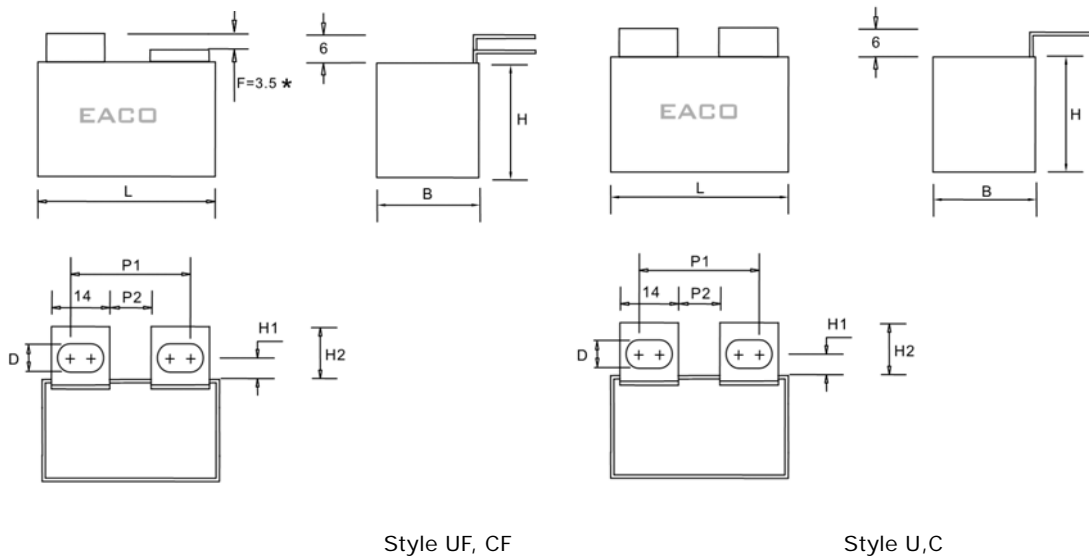
### Lug Dimensions for Plastic Case

These Lug dimensions suitable for style : B,G,U,UF,E,T and TF  
 Chose the correct styles according to your assemble way  
 The dimensions suitable for STM and STF series.



Fixing pitch and distance between lugs: Style B, Style G

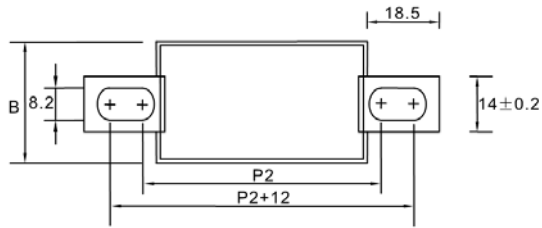
Style	B				G					
	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1
42.5	11	23-28	8	20-25						
57.5	11	23-28	24	37-42	17	42-51	24	49-58	28	53-62



Fixing pitch and distance between lugs: Style C,U,CF,UF

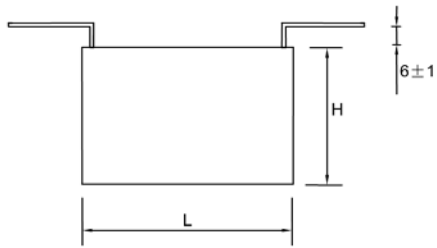
Style	P2	C CF						U UF						
		P1	P2	P1	D	H1	H2	P2	P1	P2	P1	D	H1	H2
42.5	11	24-26	8	21-23	8.2	9.5	17.5	11	23-28	8	20-25	6.2	7.5	14.5
57.5	11	24-26	24	37-39				11	23-28	24	37-42			

F: Maximum values 3.5mm. Should be adjusted according to bus dimensions

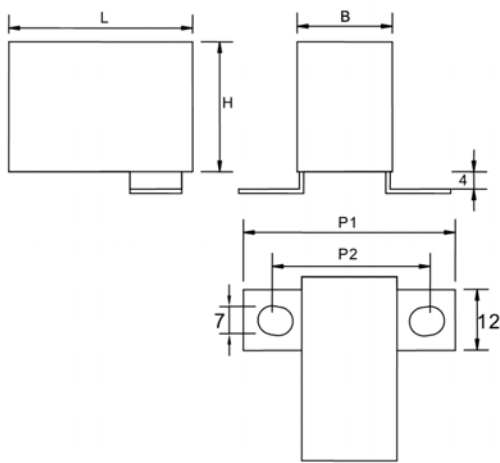


Fixing pitch and distance between lugs: Style E

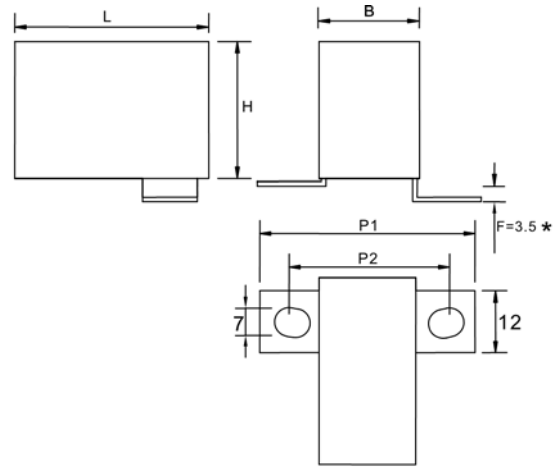
Style	E
L	P2
42.5	51
57.5	66



Style E



Style T



Style TF

Fixing pitch and distance between lugs: Style T,TF

Style	T TF				
	B	15	17	18	22
P1	43	45	46	50	56
P2	30	32	33	37	43

F: Maximum values 3.5mm. Should be adjusted according to bus dimensions