

GENERAL TECHNICAL CHARACTERISTICS

Reference standards :	IEC 61071-60068
Dielectric :	Polypropylene film
Construction :	Extended metallized carrier film with internal series connection and metallized film
Coating :	Solvent resistant plastic case, Dry construction Flame retardant execution (UL94V-0)
Leads:	Tinned copper lugs for screw fixing or soldering on PCBs

ELECTRICAL CHARACTERISTICS

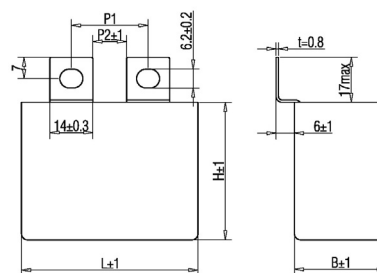
Operating temperature range :	- 40 to + 105 °C (case)
Capacitance :	0.068 to 12 μ F
Rated Voltage :	700 to 3000 VDC
Tolerance :	$\pm 5\%$, $\pm 10\%$
Dissipation factor:	$\leq 6 \times 10^{-4}$ Measured at 1000Hz ± 20 Hz and 20°C ± 5 °C
Life expectancy :	100,000 hours at Un and 70 °C (Hotspot temperature)

TEST METHODS AND PERFORMANCES

Dielectric strength:	1.5Un (DC) applied to 10s at 20 ± 5 °C
Test voltage terminal to case :	3KVAC/50Hz for 60s
Insulation resistance :	30000s but need not exceed 30G Ω , (typical value), after 1 minute of electrification at 100VDC (20 ± 5 °C)

ORFREING CODE

Please refer to Page 10, item A



Lug terminal type, (refer to Page 7- 9)

B. K. U. C. UF. CF. R. G.

T. TF. E. D. N. L available

Custom design available upon request

Electrical specifications, ordering codes

Ordering Code	Cap (μ F)	Dimension (mm)			du/dt (v/ μ s)	Ipeak (A)	Ls (nH)	Irms@60°C @10kHz (A)	ESR@10kHz (m Ω)
		L	B	H					
Un 700VDC , Urms 380VAC , Us 1050V									
STF-700-1.5-&P#	1.5	42.5	24.5	27.5	132	198	25	15.0	3.6
STF-700-1.5-&S#	1.5	42.5	17.0	28.0	132	198	25	14.5	3.6
STF-700-2.0-&P#	2.0	42.5	33.5	35.5	132	264	25	16.0	3.1
STF-700-2.0-&S#	2.0	42.5	22.0	30.0	132	264	25	15.5	3.1
STF-700-3.0-&P#	3.0	42.5	33.5	35.5	132	396	25	20.0	2.6
STF-700-3.0-&S#	3.0	42.5	28.0	37.0	132	396	25	19.5	2.6
STF-700-3.3-&P#	3.3	42.5	33.5	35.5	132	436	25	21.0	2.5
STF-700-3.3-&S#	3.3	42.5	28.0	37.0	132	436	25	20.5	2.5
STF-700-4.0-&P#	4.0	42.5	33.0	45.0	132	528	25	23.0	2.2
STF-700-4.0-&S#	4.0	42.5	30.0	45.0	132	528	25	22.0	2.2
STF-700-4.7-&P#	4.7	42.5	33.0	45.0	132	620	25	26.0	1.9
STF-700-4.7-&S#	4.7	42.5	30.0	45.0	132	620	25	25.5	1.9
STF-700-5.0-&P#	5.0	42.5	33.0	45.0	132	660	25	26.0	1.9
STF-700-5.0-&S#	5.0	42.5	30.0	45.0	132	660	25	25.5	1.9
STF-700-5.6-&P#	5.6	42.5	33.0	45.0	132	739	25	27.0	1.8
STF-700-6.8-&P#	6.8	57.5	30.0	45.0	90	612	35	27.0	2.3
STF-700-8.2-&P#	8.2	57.5	35.0	50.0	90	738	35	32.0	2.1
STF-700-9.0-&P#	9.0	57.5	35.0	50.0	90	900	35	32.0	2.0
STF-700-12-&S#	12	57.5	42.5	56.0	90	1260	35	33.0	1.8
Un 850VDC , Urms 450VAC , Us 1275V									
STF-850-1.2-&P#	1.2	42.5	24.5	27.5	200	240	25	15.0	3.3
STF-850-1.2-&S#	1.2	42.5	22.0	30.0	200	240	25	14.5	3.3
STF-850-1.5-&S#	1.5	42.5	22.0	30.0	200	300	25	18.0	3.0
STF-850-2.0-&P#	2.0	42.5	33.5	35.5	200	400	25	21.0	2.7

Electrical specifications, ordering codes

Ordering Code	Cap (μF)	Dimension (mm)			du/dt (v/μs)	Ipeak (A)	Ls (nH)	Irms@60°C @10kHz (A)	ESR@10kHz (mΩ)
		L	B	H					
Un 850VDC , Urms 450VAC , Us 1275V									
STF-850-2.0-&S#	2.0	42.5	28.0	37.0	200	400	25	20.5	2.7
STF-850-2.2-&P#	2.2	42.5	33.5	35.5	200	440	25	23.0	2.3
STF-850-2.2-&S#	2.2	42.5	28.0	37.0	200	440	25	22.5	2.3
STF-850-2.5-&P#	2.5	42.5	33.5	35.5	200	500	25	24.0	2.1
STF-850-2.5-&S#	2.5	42.5	28.0	37.0	200	500	25	24.0	2.1
STF-850-2.7-&P#	2.7	42.5	33.0	45.0	200	540	25	24.0	2.0
STF-850-2.7-&S#	2.7	42.5	30.0	45.0	200	540	25	23.5	2.0
STF-850-3.0-&P#	3.0	42.5	30.0	45.0	200	600	25	26.0	1.9
STF-850-3.3-&P#	3.3	42.5	33.0	45.0	200	660	25	27.0	1.8
STF-850-3.3-&S#	3.3	42.5	30.0	45.0	200	660	25	26.5	1.8
STF-850-4.0-&P#	4.0	42.5	33.0	45.0	200	800	25	28.0	1.7
STF-850-4.7-&P#	4.7	57.5	30.0	45.0	110	517	35	27.0	2.2
STF-850-5.0-&P#	5.0	57.5	30.0	45.0	110	550	35	28.0	2.2
STF-850-5.6-&P#	5.6	57.5	35.0	50.0	110	616	35	32.0	1.9
STF-850-6.8-&P#	6.8	57.5	35.0	50.0	110	748	35	32.0	1.8
STF-850-10-&S#	10	57.5	42.5	56.0	110	1100	35	42.0	1.2
Un 1000VDC , Urms 480VAC , Us 1500V									
STF-1000-1.0-&P#	1.0	42.5	24.5	27.5	225	225	25	15.0	3.3
STF-1000-1.0-&S#	1.0	42.5	22.0	30.0	225	225	25	14.5	3.3
STF-1000-1.5-&S#	1.5	42.5	28.0	37.0	225	338	25	20.0	2.7
STF-1000-2.0-&P#	2.0	42.5	33.0	45.0	225	450	25	23.0	2.1
STF-1000-2.0-&S#	2.0	42.5	30.0	45.0	225	450	25	22.5	2.1
STF-1000-2.5-&P#	2.5	42.5	33.0	45.0	225	563	25	27.0	1.8
STF-1000-2.5-&S#	2.5	42.5	30.0	45.0	225	563	25	26.5	1.8
STF-1000-3.3-&P#	3.3	57.5	30.0	45.0	130	429	35	26.0	2.4
STF-1000-4.7-&P#	4.7	57.5	35.0	50.0	130	611	35	32.0	1.9
STF-1000-6.8-&S#	6.8	57.5	42.5	56.0	130	884	35	41.0	1.3
Un 1200VDC , Urms 500VAC , Us 1800V									
STF-1200-0.68-&P#	0.68	42.5	24.5	27.5	225	153	25	13.0	4.1
STF-1200-0.68-&S#	0.68	42.5	22.0	30.0	225	153	25	12.5	4.1
STF-1200-1.0-&S#	1.0	42.5	28.0	37.0	225	225	25	17.0	3.2
STF-1200-1.5-&P#	1.5	42.5	33.5	35.5	225	338	25	21.0	2.6
STF-1200-1.5-&S#	1.5	42.5	28.0	37.0	225	338	25	20.5	2.6
STF-1200-2.0-&P#	2.0	42.5	33.0	45.0	225	450	25	26.0	2.0
STF-1200-2.0-&S#	2.0	42.5	30.0	45.0	225	450	25	25.5	2.0
STF-1200-2.2-&P#	2.2	42.5	33.0	45.0	225	495	25	27.0	1.9
STF-1200-2.2-&S#	2.2	42.5	30.0	45.0	225	495	25	26.5	1.9
STF-1200-2.5-&P#	2.5	57.5	30.0	45.0	150	375	35	26.0	2.4
STF-1200-2.5-&S#	2.5	42.5	33.0	45.0	225	563	25	28.0	1.8
STF-1200-3.0-&P#	3.0	57.5	35.0	50.0	150	450	35	30.0	2.1
STF-1200-3.3-&P#	3.3	57.5	35.0	50.0	150	495	35	31.0	2.0
STF-1200-3.5-&S#	3.5	57.5	35.0	50.0	150	525	35	32.0	1.9
STF-1200-5.6-&S#	5.6	57.5	42.5	56.0	150	840	35	38.0	1.5
Un 1500VDC , Urms 570VAC , Us 2250V									
STF-1500-0.33-&P#	0.33	42.5	24.5	27.5	225	74	25	12.0	5.6
STF-1500-0.33-&S#	0.33	42.5	17.0	28.0	225	74	25	11.5	5.6
STF-1500-0.47-&P#	0.47	42.5	33.5	35.5	225	106	25	13.0	4.5
STF-1500-0.47-&S#	0.47	42.5	22.0	30.0	225	106	25	12.5	4.5
STF-1500-0.68-&P#	0.68	42.5	33.5	35.5	225	153	25	18.0	3.8
STF-1500-0.68-&S#	0.68	42.5	28.0	37.0	225	153	25	17.5	3.8
STF-1500-1.0-&P#	1.0	42.5	30.0	45.0	225	225	25	21.0	2.6

Electrical specifications, ordering codes

Ordering Code	Cap (μF)	Dimension (mm)			du/dt (v/μs)	Ipeak (A)	Ls (nH)	Irms@60°C @10kHz (A)	ESR@10kHz (mΩ)
		L	B	H					
Un 1500VDC , Urms 570VAC , Us 2250V									
STF-1500-1.2-&P#	1.2	42.5	33.0	45.0	225	270	25	25.0	2.1
STF-1500-1.2-&S#	1.2	42.5	30.0	45.0	225	270	25	24.5	2.1
STF-1500-1.5-&P#	1.5	57.5	30.0	45.0	150	225	35	23.0	3.1
STF-1500-2.0-&P#	2.0	57.5	35.0	50.0	150	300	35	27.0	2.3
STF-1500-2.2-&P#	2.2	57.5	35.0	50.0	150	330	35	28.0	2.5
STF-1500-3.5-&S#	3.5	57.5	42.5	56.0	150	525	35	35.0	1.6
Un 2000VDC , Urms 630VAC , Us 3000V									
STF-2000-0.22-&P#	0.22	42.5	24.5	27.5	410	90	25	11.0	6.4
STF-2000-0.22-&S#	0.22	42.5	15.0	26.0	410	90	25	10.5	6.4
STF-2000-0.33-&P#	0.33	42.5	33.5	35.5	410	135	25	12.0	5.7
STF-2000-0.33-&S#	0.33	42.5	22.0	30.0	410	135	25	11.5	5.7
STF-2000-0.47-&P#	0.47	42.5	33.5	35.5	410	193	25	17.0	3.8
STF-2000-0.47-&S#	0.47	42.5	28.0	37.0	410	193	25	16.5	3.8
STF-2000-0.56-&P#	0.56	42.5	33.5	35.5	410	230	25	18.0	3.4
STF-2000-0.56-&S#	0.56	42.5	28.0	37.0	410	230	25	17.5	3.4
STF-2000-0.68-&P#	0.68	42.5	33.0	45.0	410	279	25	22.0	3.0
STF-2000-0.68-&S#	0.68	42.5	30.0	45.0	410	279	25	21.5	3.0
STF-2000-0.82-&P#	0.82	42.5	33.0	45.0	410	336	25	22.0	2.7
STF-2000-0.82-&S#	0.82	42.5	30.0	45.0	410	336	25	21.5	2.7
STF-2000-1.0-&P#	1.0	57.5	30.0	45.0	225	225	35	22.0	3.5
STF-2000-1.2-&S#	1.2	57.5	30.0	45.0	225	270	35	23.0	3.3
STF-2000-1.5-&P#	1.5	57.5	35.0	50.0	225	338	35	26.0	2.8
STF-2000-2.0-&S#	2.0	57.5	42.5	56.0	225	450	35	32.0	1.9
Un 2500VDC , Urms 700VAC , Us 3750V									
STF-2500-0.12-&P#	0.12	42.5	24.5	27.5	550	66	25	8.0	10.3
STF-2500-0.12-&S#	0.12	42.5	15.0	26.0	550	66	25	7.5	10.3
STF-2500-0.15-&P#	0.15	42.5	24.5	27.5	550	83	25	10.0	8.5
STF-2500-0.15-&S#	0.15	42.5	17.0	28.0	550	83	25	9.5	8.5
STF-2500-0.18-&P#	0.18	42.5	24.5	27.5	550	99	25	11.0	7.3
STF-2500-0.18-&S#	0.18	42.5	18.0	31.5	550	99	25	10.5	7.3
STF-2500-0.22-&P#	0.22	42.5	33.5	35.5	550	121	25	14.0	6.1
STF-2500-0.22-&S#	0.22	42.5	22.0	30.0	550	121	25	13.5	6.1
STF-2500-0.33-&P#	0.33	42.5	33.5	35.5	550	182	25	16.0	4.5
STF-2500-0.33-&S#	0.33	42.5	28.0	37.0	550	182	25	15.5	4.5
STF-2500-0.39-&P#	0.39	42.5	33.5	35.5	550	215	25	17.0	4.0
STF-2500-0.47-&P#	0.47	42.5	33.0	45.0	550	259	25	20.0	3.5
STF-2500-0.47-&S#	0.47	42.5	30.0	45.0	550	259	25	19.5	3.5
STF-2500-0.56-&P#	0.56	42.5	33.0	45.0	550	308	25	21.0	3.1
STF-2500-0.68-&P#	0.68	57.5	30.0	45.0	290	197	35	21.0	3.9
STF-2500-1.0-&P#	1.0	57.5	35.0	50.0	290	290	35	25.0	3.1
STF-2500-1.5-&S#	1.5	57.5	42.5	56.0	290	435	35	30.0	2.1
Un 3000VDC , Urms 750VAC , Us 4500V									
STF-3000-0.068-&P#	0.068	42.5	24.5	27.5	750	51	25	7.0	14.8
STF-3000-0.068-&S#	0.068	42.5	15.0	26.0	750	51	25	6.5	14.8
STF-3000-0.10-&P#	0.10	42.5	24.5	27.5	750	75	25	8.0	10.2
STF-3000-0.10-&S#	0.10	42.5	22.0	30.0	750	75	25	7.5	10.2
STF-3000-0.12-&P#	0.12	42.5	33.5	35.5	750	90	25	11.0	8.9
STF-3000-0.12-&S#	0.12	42.5	22.0	30.0	750	90	25	10.5	8.9
STF-3000-0.15-&P#	0.15	42.5	33.5	35.5	750	113	25	13.0	7.3

Electrical specifications, ordering codes

Ordering Code	Cap (μ F)	Dimension (mm)			du/dt (v/ μ s)	Ipeak (A)	Ls (nH)	Irms@60°C @10kHz (A)	ESR@10kHz (m Ω)
		L	B	H					
Un 3000VDC , Urms 750VAC , Us 4500V									
STF-3000-0.15-&S#	0.15	42.5	28.0	37.0	750	113	25	12.5	7.3
STF-3000-0.18-&P#	0.18	42.5	33.5	35.5	750	135	25	14.0	6.3
STF-3000-0.18-&S#	0.18	42.5	28.0	37.0	750	135	25	13.5	6.3
STF-3000-0.22-&P#	0.22	42.5	33.0	45.0	750	165	25	16.0	5.3
STF-3000-0.22-&S#	0.22	42.5	28.0	37.0	750	165	25	15.5	5.3
STF-3000-0.33-&P#	0.33	42.5	33.0	45.0	750	248	25	19.0	4.2
STF-3000-0.39-&P#	0.39	57.5	30.0	45.0	370	144	35	19.0	5.2
STF-3000-0.47-&P#	0.47	57.5	35.0	50.0	370	174	35	21.0	4.6
STF-3000-0.56-&P#	0.56	57.5	35.0	50.0	370	207	35	22.0	4.1
STF-3000-1.0-&S#	1.0	57.5	42.5	56.0	370	370	35	28.0	3.0