

GENERAL TECHNICAL CHARACTERISTICS

Dielectric : Polypropylene film
 Construction : Extended metallized film
 with internal series connection
 Coating : 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

Operating temperature range(case) : - 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, 5×10⁻⁴;
 When Cr>1.0μF, 6×10⁻⁴
 Life expectancy : 100,000 hours at Ur and 70 °C

TEST METHODS AND PERFORMANCES

Dielectric strength: 2Ur (DC) applied for 10s at 25±5°C
 (1 minute for type test)
 Test voltage terminal to case : 3 KV 50Hz for 60 sec
 Insulation resistance : 30000s 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				
Ur 700Vdc, Urms 380Vac, Upk 1000Vdc								
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	33.0	45.0	132	528	23.0	2.2
STF-700-4.0-*S#	4.0	42.5	30.0	45.0	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-700-9.0-*P#	9.0	57.5	35.0	50.0	90	900	32.0	2.0
STF-700-12-*S#	12	57.5	42.5	56.0	90	1260	33.0	1.8
Ur 850Vdc, Urms 450Vac, Upk 1200Vdc								
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	22.0	30.0	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 (µF)	Dimension (mm)			du/dt (V/µs)	Ipeak A	Irms max. (A)	ESR (mΩ)
		L	B	H				
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	33.0	45.0	200	540	24.0	2.0
STF-850-2.7-*S#	2.7	42.5	30.0	45.0	200	540	23.5	2.0
STF-850-3.0-*P#	3.0	42.5	30.0	45.0	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
Ur 1000Vdc, Urms 480Vac, Upk 1400Vdc								
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	33.0	45.0	225	450	23.0	2.1
STF-1000-2.0-*S#	2.0	42.5	30.0	45.0	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
Ur 1200Vdc, Urms 500Vac, Upk 1600Vdc								
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
Ur 1500Vdc, Urms 575Vac, Upk 2000Vdc								
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	33.5	35.5	225	106	13.0	4.5
STF-1500-0.47-*S#	0.47	42.5	22.0	30.0	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	30.0	45.0	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
Ur 2000Vdc, Urms 630Vac, Upk 2400Vdc								
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	33.5	35.5	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-2000-2.0-*S#	2.0	57.5	42.5	56.0	225	450	32.0	1.9
Ur 2500Vdc, Urms 700Vac, Upk 3000Vdc								
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
Ur 3000Vdc, Urms 750Vac, Upk 3500Vdc								
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	22.0	30.0	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#

