

GENERAL TECHNICAL CHARACTERISTICS

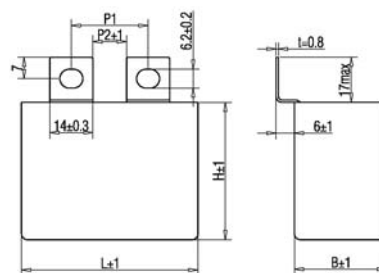
Reference standards : IEC 61071
 Dielectric : Polypropylene film
 Construction : Dry construction, Non-inductive type
 Coating : Solvent resistant plastic case.
 Flammability class UL94 V-0

ELECTRICAL CHARACTERISTICS

Operating temperature range : - 40 to + 105 °C (case)
 Capacitance : 0.047 to 10 μ F
 Rated Voltage : 700 to 3000 VDC
 Tolerance : \pm 5%, \pm 10%
 Dissipation factor: \leq 6 \times 10⁻⁴ Measured at 1KHz and 20 \pm 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 \pm 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 \pm 5 °C)



Lug terminal type

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

T. TF. E. D. N. L etc.

Custom design available upon request

ORDERING CODE

Please refer to order code

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@100KHz (m Ω)
		L	B	H					
Un 700VDC , Urms 380VAC , Us 1050V									
STM-700-1.0-&P#	1.0	42.5	24.5	27.5	325	325	25	15.0	4.3
STM-700-1.2-&P#	1.2	42.5	24.5	27.5	325	390	25	16.0	3.1
STM-700-1.5-&S#	1.5	42.5	22.0	30.0	325	487	25	18.0	3.5
STM-700-2.0-&P#	2.0	42.5	33.5	35.5	325	650	25	22.0	3.2
STM-700-2.0-&S#	2.0	42.5	28.0	37.0	325	650	25	21.5	3.2
STM-700-2.2-&P#	2.2	42.5	33.5	35.5	325	715	25	22.5	2.4
STM-700-2.2-&S#	2.2	42.5	28.0	37.0	325	715	25	22.0	2.4
STM-700-2.5-&P#	2.5	42.5	33.5	35.5	325	812	25	23.0	2.5
STM-700-2.5-&S#	2.5	42.5	28.0	37.0	325	812	25	22.5	2.5
STM-700-3.0-&P#	3.0	42.5	33.0	45.0	325	975	25	26.0	2.4
STM-700-3.0-&S#	3.0	42.5	30.0	45.0	325	975	25	25.5	2.4
STM-700-3.3-&P#	3.3	42.5	33.0	45.0	325	1072	25	26.5	2.4
STM-700-3.3-&S#	3.3	42.5	30.0	45.0	325	1072	25	26.0	2.4
STM-700-3.5-&P#	3.5	42.5	33.0	45.0	325	1134	25	27.0	2.0
STM-700-3.5-&S#	3.5	42.5	30.0	45.0	325	1134	25	26.5	2.0
STM-700-4.0-&P#	4.0	57.5	30.0	45.0	220	880	35	27.0	2.3
STM-700-4.0-&S#	4.0	42.5	33.0	45.0	325	1300	25	32.0	1.8
STM-700-4.7-&P#	4.7	57.5	35.0	50.0	220	1034	35	31.0	2.1
STM-700-4.7-&S#	4.7	57.5	30.0	45.0	220	1034	35	30.5	2.1
STM-700-5.0-&P#	5.0	57.5	35.0	50.0	220	1100	35	31.0	2.5
STM-700-5.0-&S#	5.0	57.5	30.0	45.0	220	1100	35	30.5	2.5
STM-700-5.6-&P#	5.6	57.5	35.0	50.0	220	1232	35	32.0	2.0
STM-700-6.8-&S#	6.8	57.5	35.0	50.0	220	1496	35	32.0	2.0
STM-700-10.0-&S#	10.0	57.5	42.5	56.0	220	2200	35	33.0	1.8

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@100KHz (m Ω)
		L	B	H					
Un 850VDC , Urms 450VAC , Us 1275V									
STM-850-0.82-&P#	0.82	42.5	24.5	27.5	400	328	25	15.5	4.6
STM-850-1.0-&P#	1.0	42.5	24.5	27.5	400	400	25	17.5	4.0
STM-850-1.0-&S#	1.0	42.5	22.0	30.0	400	400	25	17.0	4.0
STM-850-1.5-&P#	1.5	42.5	33.5	35.5	400	600	25	23.0	2.2
STM-850-1.5-&S#	1.5	42.5	28.0	37.0	400	600	25	22.5	2.2
STM-850-2.0-&P#	2.0	42.5	33.5	35.5	400	800	25	23.5	2.2
STM-850-2.2-&P#	2.2	42.5	30.0	45.0	400	880	25	26.5	2.2
STM-850-2.5-&P#	2.5	42.5	33.0	45.0	400	1000	25	27.0	2.9
STM-850-2.5-&S#	2.5	42.5	30.0	45.0	400	1000	25	26.5	2.9
STM-850-3.0-&P#	3.0	57.5	30.0	45.0	280	840	35	28.0	3.4
STM-850-3.3-&P#	3.3	57.5	30.0	45.0	280	924	35	28.5	3.4
STM-850-4.0-&P#	4.0	57.5	35.0	50.0	280	1120	35	29.5	2.1
STM-850-4.7-&P#	4.7	57.5	35.0	50.0	280	1316	35	32.0	2.2
STM-850-6.8-&S#	6.8	57.5	42.5	56.0	280	1904	35	33.0	1.7
Un 1000VDC , Urms 480VAC , Us 1500V									
STM-1000-0.68-&P#	0.68	42.5	24.5	27.5	500	340	25	15.0	5.3
STM-1000-0.75-&P#	0.75	42.5	24.5	27.5	500	375	25	15.5	4.7
STM-1000-0.75-&S#	0.75	42.5	22.0	30.0	500	375	25	15.0	4.7
STM-1000-1.0-&S#	1.0	42.5	28.0	37.0	500	500	25	17.0	3.5
STM-1000-1.2-&P#	1.2	42.5	33.5	35.5	500	600	25	22.0	3.2
STM-1000-1.2-&S#	1.2	42.5	28.0	37.0	500	600	25	21.5	3.2
STM-1000-1.5-&P#	1.5	42.5	33.5	35.5	500	750	25	23.5	2.5
STM-1000-1.75-&P#	1.75	42.5	33.0	45.0	500	875	25	23.5	2.1
STM-1000-1.75-&S#	1.75	42.5	30.0	45.0	500	875	25	23.0	2.1
STM-1000-2.0-&P#	2.0	42.5	33.0	45.0	500	1000	25	26.5	2.3
STM-1000-2.2-&P#	2.2	57.5	30.0	45.0	350	770	35	26.5	2.7
STM-1000-2.5-&S#	2.5	57.5	30.0	45.0	350	875	35	28.0	2.9
STM-1000-3.0-&P#	3.0	57.5	35.0	50.0	350	1050	35	31.0	3.4
STM-1000-3.3-&P#	3.3	57.5	35.0	50.0	350	1155	35	31.0	2.5
STM-1000-5.0-&S#	5.0	57.5	42.5	56.0	350	1750	35	33.0	1.6
Un 1200VDC , Urms 500VAC , Us 1800V									
STM-1200-0.22-&P#	0.22	42.5	24.5	27.5	650	143	25	11.5	12.8
STM-1200-0.22-&S#	0.22	42.5	15.0	26.0	650	143	25	11.0	12.8
STM-1200-0.33-&P#	0.33	42.5	24.5	27.5	650	210	25	12.0	8.9
STM-1200-0.33-&S#	0.33	42.5	15.0	26.0	650	210	25	11.5	8.9
STM-1200-0.39-&P#	0.39	42.5	24.5	27.5	650	254	25	13.0	7.3
STM-1200-0.39-&S#	0.39	42.5	17.0	28.0	650	254	25	12.5	7.3
STM-1200-0.47-&P#	0.47	42.5	24.5	27.5	650	306	25	14.0	7.0
STM-1200-0.47-&S#	0.47	42.5	22.0	30.0	650	306	25	13.5	7.0
STM-1200-0.56-&S#	0.56	42.5	22.0	30.0	650	364	25	14.0	5.3
STM-1200-0.56-&P#	0.56	42.5	24.5	27.5	650	364	25	14.5	5.3
STM-1200-0.68-&P#	0.68	42.5	33.5	35.5	650	442	25	19.0	4.6
STM-1200-0.68-&S#	0.68	42.5	22.0	30.0	650	442	25	18.5	4.6
STM-1200-0.82-&P#	0.82	42.5	33.5	35.5	650	533	25	20.0	3.9
STM-1200-0.82-&S#	0.82	42.5	28.0	37.0	650	533	25	19.5	3.9
STM-1200-1.0-&P#	1.0	42.5	33.5	35.5	650	650	25	20.5	3.4
STM-1200-1.0-&S#	1.0	42.5	28.0	37.0	650	650	25	20.0	3.4
STM-1200-1.2-&P#	1.2	42.5	33.0	45.0	650	780	25	23.5	3.1

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@100KHz (m Ω)
		L	B	H					
Un 1200VDC , Urms 500VAC , Us 1800V									
STM-1200-1.2-&S#	1.2	42.5	30.0	45.0	650	780	25	23.0	4.2
STM-1200-1.5-&P#	1.5	42.5	33.0	45.0	650	975	25	25.0	4.1
STM-1200-1.5-&S#	1.5	42.5	30.0	45.0	650	975	25	24.5	4.1
STM-1200-2.0-&P#	2.0	57.5	30.0	45.0	455	910	35	27.0	3.6
STM-1200-2.2-&P#	2.2	57.5	35.0	50.0	455	1001	35	30.0	3.5
STM-1200-2.2-&S#	2.2	57.5	30.0	45.0	455	1001	35	29.5	3.5
STM-1200-2.5-&P#	2.5	57.5	35.0	50.0	455	1138	35	31.0	3.2
STM-1200-3.0-&P#	3.0	57.5	35.0	50.0	455	1365	35	32.0	3.1
STM-1200-4.5-&S#	4.5	57.5	42.5	56.0	455	2047	35	33.0	3.0
Un 1500VDC , Urms 570VAC , Us 2250V									
STM-1500-0.33-&P#	0.33	42.5	24.5	27.5	800	264	25	13.5	7.4
STM-1500-0.39-&S#	0.39	42.5	22.0	30.0	800	312	25	13.5	7.2
STM-1500-0.47-&P#	0.47	42.5	33.5	35.5	800	376	25	18.0	5.3
STM-1500-0.47-&S#	0.47	42.5	28.0	37.0	800	376	25	17.5	5.3
STM-1500-0.68-&P#	0.68	42.5	33.5	35.5	800	544	25	19.5	4.6
STM-1500-0.68-&S#	0.68	42.5	28.0	37.0	800	544	25	19.0	4.6
STM-1500-0.75-&P#	0.75	42.5	33.5	35.5	800	600	25	20.5	4.5
STM-1500-1.0-&P#	1.0	42.5	33.0	45.0	800	800	25	23.0	4.5
STM-1500-1.0-&S#	1.0	42.5	30.0	45.0	800	800	25	22.5	4.5
STM-1500-1.2-&P#	1.2	57.5	30.0	45.0	560	672	35	25.0	4.2
STM-1500-1.5-&P#	1.5	57.5	35.0	50.0	560	840	35	28.0	4.1
STM-1500-1.8-&P#	1.8	57.5	35.0	50.0	560	1008	35	29.5	4.0
STM-1500-2.5-&S#	2.5	57.5	42.5	56.0	560	1400	35	31.0	4.0
Un 1700VDC , Urms 575VAC , Us 2550V									
STM-1700-0.22-&P#	0.22	42.5	24.5	27.5	880	194	25	13.2	10.2
STM-1700-0.22-&S#	0.22	42.5	17.0	28.0	880	194	25	13.0	10.2
STM-1700-0.33-&P#	0.33	42.5	24.5	27.5	880	290	25	14.0	7.9
STM-1700-0.33-&S#	0.33	42.5	22.0	30.0	880	290	25	13.5	7.9
STM-1700-0.47-&P#	0.47	42.5	33.5	35.5	880	413	25	19.0	5.6
STM-1700-0.47-&S#	0.47	42.5	28.0	37.0	880	413	25	18.5	5.6
STM-1700-0.56-&P#	0.56	42.5	33.5	35.5	880	492	25	19.5	5.5
STM-1700-0.56-&S#	0.56	42.5	28.0	37.0	880	492	25	19.0	5.5
STM-1700-0.68-&P#	0.68	42.5	33.5	35.5	880	598	25	20.0	5.4
STM-1700-0.82-&P#	0.82	42.5	33.0	45.0	880	721	25	22.1	5.4
STM-1700-0.82-&S#	0.82	42.5	30.0	45.0	880	721	25	19.5	5.4
STM-1700-1.0-&P#	1.0	57.5	30.0	45.0	610	610	35	23.5	5.3
STM-1700-1.2-&P#	1.2	57.5	30.0	45.0	610	732	35	26.2	4.5
STM-1700-1.5-&P#	1.5	57.5	35.0	50.0	610	915	35	28.5	3.7
STM-1700-2.2-&S#	2.2	57.5	42.5	56.0	610	1342	35	30.0	3.5
Un 2000VDC , Urms 630VAC , Us 3000V									
STM-2000-0.10-&P#	0.10	42.5	24.5	27.5	1000	100	25	8.0	25.7
STM-2000-0.10-&S#	0.10	42.5	15.0	26.0	1000	100	25	7.5	25.7
STM-2000-0.15-&P#	0.15	42.5	24.5	27.5	1000	150	25	10.5	14.7
STM-2000-0.15-&S#	0.15	42.5	17.0	28.0	1000	150	25	10.0	14.7
STM-2000-0.22-&P#	0.22	42.5	24.5	27.5	1000	220	25	12.0	10.5
STM-2000-0.22-&S#	0.22	42.5	22.0	30.0	1000	220	25	11.5	10.5
STM-2000-0.33-&P#	0.33	42.5	33.5	35.5	1000	330	25	16.5	9.5
STM-2000-0.33-&S#	0.33	42.5	28.0	37.0	1000	330	25	16.0	9.5
STM-2000-0.39-&P#	0.39	42.5	33.5	35.5	1000	390	25	17.5	6.7
STM-2000-0.39-&S#	0.39	42.5	28.0	37.0	1000	390	25	17.0	6.7
STM-2000-0.47-&P#	0.47	42.5	33.0	45.0	1000	470	25	20.5	5.2

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@100KHz (m Ω)
		L	B	H					
Un 2000VDC , Urms 630VAC , Us 3000V									
STM-2000-0.47-&S#	0.47	42.5	28.0	37.0	1000	470	25	20.0	5.2
STM-2000-0.56-&P#	0.56	42.5	33.0	45.0	1000	560	25	21.5	4.3
STM-2000-0.68-&P#	0.68	57.5	30.0	45.0	700	476	35	22.5	5.7
STM-2000-0.82-&P#	0.82	57.5	30.0	45.0	700	574	35	24.0	4.5
STM-2000-1.0-&P#	1.0	57.5	35.0	50.0	700	700	35	27.0	4.5
STM-2000-1.2-&P#	1.2	57.5	35.0	50.0	700	840	35	29.0	4.2
STM-2000-1.8-&S#	1.8	57.5	42.5	56.0	700	1260	35	31.0	4.0
Un 2500VDC , Urms 700VAC , Us 3750V									
STM-2500-0.10-&P#	0.10	42.5	24.5	27.5	1350	135	25	9.0	18.7
STM-2500-0.15-&S#	0.15	42.5	22.0	30.0	1350	202	25	10.5	13.5
STM-2500-0.22-&S#	0.22	42.5	28.0	37.0	1350	297	25	14.5	10.2
STM-2500-0.33-&S#	0.33	42.5	33.0	45.0	1350	445	25	18.0	7.8
STM-2500-0.47-&S#	0.47	57.5	30	45.0	945	444	35	22.0	6.2
STM-2500-0.56-&P#	0.56	57.5	30.0	45.0	945	530	35	22.5	6.2
STM-2500-0.68-&P#	0.68	57.5	35.0	50.0	945	642	35	25.0	5.5
STM-2500-0.75-&P#	0.75	57.5	35.0	50.0	945	709	35	25.5	5.1
STM-2500-1.0-&S#	1.0	57.5	42.5	56.0	945	945	35	28.0	4.8
Un 3000VDC , Urms 750VAC , Us 4500V									
STM-3000-0.047-&P#	0.047	42.5	24.5	27.5	1600	75	25	7.4	31.6
STM-3000-0.047-&S#	0.047	42.5	15.0	26.0	1600	75	25	7.0	31.6
STM-3000-0.068-&P#	0.068	42.5	24.5	27.5	1600	108	25	9.0	22.7
STM-3000-0.068-&S#	0.068	42.5	17.0	28.0	1600	108	25	8.5	22.7
STM-3000-0.10-&P#	0.10	42.5	33.5	35.5	1600	160	25	12.0	15.0
STM-3000-0.10-&S#	0.10	42.5	22.0	30.0	1600	160	25	11.5	15.0
STM-3000-0.15-&P#	0.15	42.5	33.5	35.5	1600	240	25	14.5	10.8
STM-3000-0.15-&S#	0.15	42.5	28.0	37.0	1600	240	25	14.0	10.8
STM-3000-0.22-&P#	0.22	42.5	33.0	45.0	1600	352	25	17.6	6.6
STM-3000-0.22-&S#	0.22	42.5	30.0	45.0	1600	352	25	17.0	6.6
STM-3000-0.33-&P#	0.33	57.5	30.0	45.0	870	288	35	21.0	7.5
STM-3000-0.47-&P#	0.47	57.5	35.0	50.0	870	408	35	23.0	7.5
STM-3000-0.56-&S#	0.56	57.5	35.0	50.0	870	487	35	23.0	7.4
STM-3000-0.82-&S#	0.82	57.5	42.5	56.0	870	714	35	26.0	7.0