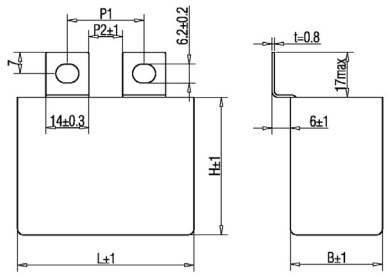
GENERAL TECHNICAL CHARACTERISTICS

Reference standards :	IEC 61071-60068
Dielectric :	Polypropylene film
Construction :	Extended double side metallized carrier film with internal series connection and metallized film
Coating :	Solvent resistant plastic case. Dry construction Flammability class UL94V-0
Leads:	Tinned copper lugs for screw fixing or soldering on PCBS



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 CHARACTERISTICS

Operating temperature range :	- 40 to + 105 ˚C (case)
Capacitance :	0.047 to 10μF
Rated Voltage :	700 to 3000 VDC
Tolerance :	± 5% , ± 10%
Dissipation factor:	≤6×10^{-4} Measured at 1000±20 Hz and 20±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 30GΩ (typical value), after 1 minute of electrification at 100VDC (20±5˚C)

ORDERING CODE

Please refer to Page 10, item A

Electrical specifications, ordering codes

Ordering Code	Cap (μF)	Dimension(mm) L	B	H	du/dt (v/μs)	Ipeak (A)	Ls (nH)	Irms@60˚C @10kHz (A)	ESR@10kHz (mΩ)
Un 700VDC , Urms 380VAC , Us 1050V									
STM-700-1.0-&P#	1.0	42.5	24.5	27.5	325	325	25	15.0	3.2
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	2.8
STM-700-2.0-&P#	2.0	42.5	33.5	35.5	325	650	25	22.0	2.5
STM-700-2.0-&S#	2.0	42.5	28.0	37.0	325	650	25	21.5	2.5
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	2.2
STM-700-2.5-&S#	2.5	42.5	28.0	37.0	325	812	25	22.5	2.2
STM-700-3.0-&P#	3.0	42.5	33.0	45.0	325	975	25	26.0	2.1
STM-700-3.0-&S#	3.0	42.5	30.0	45.0	325	975	25	25.5	2.1
STM-700-3.3-&P#	3.3	42.5	33.0	45.0	325	1072	25	26.5	2.1
STM-700-3.3-&S#	3.3	42.5	30.0	45.0	325	1072	25	26.0	2.1
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	35	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	2.1
STM-700-5.0-&S#	5.0	57.5	30.0	45.0	220	1100	35	30.5	2.1
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	1.3

Electrical specifications, ordering codes

Ordering Code	Cap	Dimension(mm)			du/dt	Ipeak	Ls	Irms@60˚C	ESR@10kHz
	(μF)	L	B	H	(v/μs)	(A)	(nH)	@10kHz (A)	(mΩ)
Un 850VDC , Urms 450VAC , Us 1275V									
STM-850-0.82-&P#	0.82	42.5	24.5	27.5	400	328	25	15.5	3.1
STM-850-1.0-&P#	1.0	42.5	24.5	27.5	400	400	25	17.5	2.7
STM-850-1.0-&S#	1.0	42.5	22.0	30.0	400	400	25	17.0	2.7
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	2.0
STM-850-2.5-&P#	2.5	42.5	33.0	45.0	400	1000	25	27.0	2.0
STM-850-2.5-&S#	2.5	42.5	30.0	45.0	400	1000	25	26.5	2.0
STM-850-3.0-&P#	3.0	57.5	30.0	45.0	280	840	35	28.0	1.9
STM-850-3.3-&P#	3.3	57.5	30.0	45.0	280	924	35	28.5	2.2
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	1.9
STM-850-6.8-&S#	6.8	57.5	42.5	56.0	280	1904	35	33.0	1.5
Un 1000VDC , Urms 480VAC , Us 1500V									
STM-1000-0.68-&P#	0.68	42.5	24.5	27.5	500	340	25	15.0	3.3
STM-1000-0.75-&P#	0.75	42.5	24.5	27.5	500	375	25	15.5	3.2
STM-1000-0.75-&S#	0.75	42.5	22.0	30.0	500	375	25	15.0	3.2
STM-1000-1.0-&S#	1.0	42.5	28.0	37.0	500	500	25	17.0	2.9
STM-1000-1.2-&P#	1.2	42.5	33.5	35.5	500	600	25	22.0	2.5
STM-1000-1.2-&S#	1.2	42.5	28.0	37.0	500	600	25	21.5	2.5
STM-1000-1.5-&P#	1.5	42.5	33.5	35.5	500	750	25	23.5	2.2
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	2.0
STM-1000-2.2-&P#	2.2	57.5	30.0	45.0	350	770	35	26.5	2.5
STM-1000-2.5-&S#	2.5	57.5	30.0	45.0	350	875	35	28.0	2.1
STM-1000-3.0-&P#	3.0	57.5	35.0	50.0	350	1050	35	31.0	2.1
STM-1000-3.3-&P#	3.3	57.5	35.0	50.0	350	1155	35	31.0	2.0
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	5.2
STM-1200-0.22-&S#	0.22	42.5	15.0	26.0	650	143	25	11.0	5.2
STM-1200-0.33-&P#	0.33	42.5	24.5	27.5	650	210	25	12.0	5.1
STM-1200-0.33-&S#	0.33	42.5	15.0	26.0	650	210	25	11.5	5.1
STM-1200-0.39-&P#	0.39	42.5	24.5	27.5	650	254	25	13.0	4.6
STM-1200-0.39-&S#	0.39	42.5	17.0	28.0	650	254	25	12.5	4.6
STM-1200-0.47-&P#	0.47	42.5	24.5	27.5	650	308	25	14.0	4.1
STM-1200-0.47-&S#	0.47	42.5	22.0	30.0	650	308	25	13.5	4.1
STM-1200-0.56-&S#	0.56	42.5	22.0	30.0	650	364	25	14.0	3.7
STM-1200-0.56-&P#	0.56	42.5	24.5	27.5	650	364	25	14.5	3.7
STM-1200-0.68-&P#	0.68	42.5	33.5	35.5	650	442	25	19.0	3.3
STM-1200-0.68-&S#	0.68	42.5	22.0	30.0	650	442	25	18.5	3.3
STM-1200-0.82-&P#	0.82	42.5	33.5	35.5	650	533	25	20.0	3.0
STM-1200-0.82-&S#	0.82	42.5	28.0	37.0	650	533	25	19.5	3.0
STM-1200-1.0-&P#	1.0	42.5	33.5	35.5	650	650	25	20.5	2.7
STM-1200-1.0-&S#	1.0	42.5	28.0	37.0	650	650	25	20.0	2.7
STM-1200-1.2-&P#	1.2	42.5	33.0	45.0	650	780	25	23.5	2.4

Electrical specifications, ordering codes

Ordering Code	Cap	Dimension(mm)			du/dt	Ipeak	Ls	Irms@60˚C	ESR@10kHz
	(μF)	L	B	H	(v/μs)	(A)	(nH)	@10kHz (A)	(mΩ)
Un 1200VDC , Urms 500VAC , Us 1800V									
STM-1200-1.2-&S#	1.2	42.5	30.0	45.0	650	780	25	23.0	2.4
STM-1200-1.5-&P#	1.5	42.5	33.0	45.0	650	975	25	25.0	2.1
STM-1200-1.5-&S#	1.5	42.5	30.0	45.0	650	975	25	24.5	2.1
STM-1200-2.0-&P#	2.0	57.5	30.0	45.0	455	910	35	27.0	1.7
STM-1200-2.2-&P#	2.2	57.5	35.0	50.0	455	1001	35	30.0	2.4
STM-1200-2.2-&S#	2.2	57.5	30.0	50.0	455	1001	35	29.5	2.4
STM-1200-2.5-&P#	2.5	57.5	35.0	50.0	455	1138	35	31.0	2.3
STM-1200-3.0-&P#	3.0	57.5	35.0	50.0	455	1365	35	32.0	2.1
STM-1200-4.5-&S#	4.5	57.5	42.5	56.0	455	2047	35	33.0	1.7
Un 1500VDC , Urms 570VAC , Us 2250V									
STM-1500-0.33-&P#	0.33	42.5	24.5	27.5	800	264	25	13.5	4.6
STM-1500-0.39-&S#	0.39	42.5	22.0	30.0	800	312	25	13.5	4.3
STM-1500-0.47-&P#	0.47	42.5	33.5	35.5	800	376	25	18.0	3.7
STM-1500-0.47-&S#	0.47	42.5	28.0	37.0	800	376	25	17.5	3.7
STM-1500-0.68-&P#	0.68	42.5	33.5	35.5	800	544	25	19.5	3.1
STM-1500-0.68-&S#	0.68	42.5	28.0	37.0	800	544	25	19.0	3.1
STM-1500-0.75-&P#	0.75	42.5	33.5	35.5	800	600	25	20.5	2.8
STM-1500-1.0-&P#	1.0	42.5	33.0	45.0	800	800	25	23.0	2.5
STM-1500-1.0-&S#	1.0	42.5	30.0	45.0	800	800	25	22.5	2.5
STM-1500-1.2-&P#	1.2	57.5	30.0	45.0	560	672	35	25.0	2.8
STM-1500-1.5-&P#	1.5	57.5	35.0	50.0	560	840	35	28.0	2.5
STM-1500-1.8-&P#	1.8	57.5	35.0	50.0	560	1008	35	29.5	2.3
STM-1500-2.5-&S#	2.5	57.5	42.5	56.0	560	1400	35	31.0	1.8
Un 1700VDC , Urms 575VAC , Us 2550V									
STM-1700-0.22-&P#	0.22	42.5	24.5	27.5	880	194	25	13.2	5.3
STM-1700-0.22-&S#	0.22	42.5	17.0	28.0	880	194	25	13.0	5.3
STM-1700-0.33-&P#	0.33	42.5	24.5	27.5	880	290	25	14.0	5.0
STM-1700-0.33-&S#	0.33	42.5	22.0	30.0	880	290	25	13.5	5.0
STM-1700-0.47-&P#	0.47	42.5	33.5	35.5	880	413	25	19.0	3.8
STM-1700-0.47-&S#	0.47	42.5	28.0	37.0	880	413	25	18.5	3.8
STM-1700-0.56-&P#	0.56	42.5	33.5	35.5	880	492	25	19.5	3.1
STM-1700-0.56-&S#	0.56	42.5	28.0	37.0	880	492	25	19.0	3.1
STM-1700-0.68-&P#	0.68	42.5	33.5	35.5	880	598	25	20.0	2.9
STM-1700-0.82-&P#	0.82	42.5	33.0	45.0	880	721	25	22.1	2.5
STM-1700-0.82-&S#	0.82	42.5	30.0	45.0	880	721	25	19.5	2.5
STM-1700-1.0-&P#	1.0	57.5	30.0	45.0	610	610	35	23.5	2.7
STM-1700-1.2-&P#	1.2	57.5	30.0	45.0	610	732	35	26.2	2.6
STM-1700-1.5-&P#	1.5	57.5	35.0	50.0	610	915	35	28.5	2.4
STM-1700-2.2-&S#	2.2	57.5	42.5	56.0	610	1342	35	30.0	1.8
Un 2000VDC , Urms 630VAC , Us 3000V									
STM-2000-0.10-&P#	0.10	42.5	24.5	27.5	1000	100	25	8.0	13.0
STM-2000-0.10-&S#	0.10	42.5	15.0	26.0	1000	100	25	7.5	13.0
STM-2000-0.15-&P#	0.15	42.5	24.5	27.5	1000	150	25	10.5	7.5
STM-2000-0.15-&S#	0.15	42.5	17.0	28.0	1000	150	25	10.0	7.5
STM-2000-0.22-&P#	0.22	42.5	24.5	27.5	1000	220	25	12.0	5.1
STM-2000-0.22-&S#	0.22	42.5	22.0	30.0	1000	220	25	11.5	5.1
STM-2000-0.33-&P#	0.33	42.5	33.5	35.5	1000	330	25	16.5	4.1
STM-2000-0.33-&S#	0.33	42.5	28.0	37.0	1000	330	25	16.0	4.1
STM-2000-0.39-&P#	0.39	42.5	33.5	35.5	1000	390	25	17.5	3.6
STM-2000-0.39-&S#	0.39	42.5	28.0	37.0	1000	390	25	17.0	3.6
STM-2000-0.47-&P#	0.47	42.5	33.0	45.0	1000	470	25	20.5	3.2

Electrical specifications, ordering codes

Ordering Code	Cap	Dimension(mm)			du/dt	Ipeak	Ls	Irms@60˚C	ESR@10kHz
	(μF)	L	B	H	(v/μs)	(A)	(nH)	@10kHz (A)	(mΩ)
Un 2000VDC , Urms 630VAC , Us 3000V									
STM-2000-0.47-&S#	0.47	42.5	28.0	37.0	1000	470	25	20.0	3.2
STM-2000-0.56-&P#	0.56	42.5	33.0	45.0	1000	560	25	21.5	3.0
STM-2000-0.68-&P#	0.68	57.5	30.0	45.0	700	476	35	22.5	3.5
STM-2000-0.82-&P#	0.82	57.5	30.0	45.0	700	574	35	24.0	3.1
STM-2000-1.0-&P#	1.0	57.5	35.0	50.0	700	700	35	27.0	2.8
STM-2000-1.2-&P#	1.2	57.5	35.0	50.0	700	840	35	29.0	2.4
STM-2000-1.8-&S#	1.8	57.5	42.5	56.0	700	1260	35	31.0	2.0
Un 2500VDC , Urms 700VAC , Us 3750V									
STM-2500-0.10-&P#	0.10	42.5	24.5	27.5	1350	135	25	9.0	11.2
STM-2500-0.15-&S#	0.15	42.5	22.0	30.0	1350	202	25	10.5	7.2
STM-2500-0.22-&S#	0.22	42.5	28.0	37.0	1350	297	25	14.5	5.2
STM-2500-0.33-&S#	0.33	42.5	33.0	45.0	1350	445	25	18.0	3.8
STM-2500-0.47-&S#	0.47	57.5	30	45.0	945	444	35	22.0	3.4
STM-2500-0.56-&P#	0.56	57.5	30.0	45.0	945	530	35	22.5	3.5
STM-2500-0.68-&P#	0.68	57.5	35.0	50.0	945	642	35	25.0	3.2
STM-2500-0.75-&P#	0.75	57.5	35.0	50.0	945	709	35	25.5	3.1
STM-2500-1.0-&S#	1.0	57.5	42.5	56.0	945	945	35	28.0	2.8
Un 3000VDC , Urms 750VAC , Us 4500V									
STM-3000-0.047-&P#	0.047	42.5	24.5	27.5	1600	75	25	7.4	17.0
STM-3000-0.047-&S#	0.047	42.5	15.0	26.0	1600	75	25	7.0	17.0
STM-3000-0.068-&P#	0.068	42.5	24.5	27.5	1600	108	25	9.0	12.0
STM-3000-0.068-&S#	0.068	42.5	17.0	28.0	1600	108	25	8.5	12.0
STM-3000-0.10-&P#	0.10	42.5	33.5	35.5	1600	160	25	12.0	8.5
STM-3000-0.10-&S#	0.10	42.5	22.0	30.0	1600	160	25	11.5	8.5
STM-3000-0.15-&P#	0.15	42.5	33.5	35.5	1600	240	25	14.5	6.1
STM-3000-0.15-&S#	0.15	42.5	28.0	37.0	1600	240	25	14.0	6.1
STM-3000-0.22-&P#	0.22	42.5	33.0	45.0	1600	352	25	17.6	1.3
STM-3000-0.22-&S#	0.22	42.5	30.0	45.0	1600	352	25	17.0	1.3
STM-3000-0.33-&P#	0.33	57.5	30.0	45.0	870	288	35	21.0	4.2
STM-3000-0.47-&P#	0.47	57.5	35.0	50.0	870	408	35	23.0	3.9
STM-3000-0.56-&S#	0.56	57.5	35.0	50.0	870	487	35	23.0	3.8
STM-3000-0.82-&S#	0.82	57.5	42.5	56.0	870	714	35	26.0	3.0