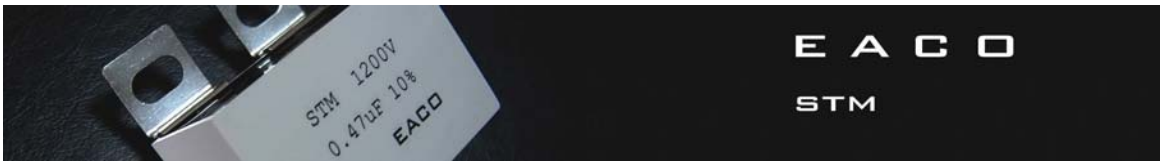


Snubber Capacitor

STM

Metallized polypropylene film capacitor

Snubber/pulse High current

Main applications: IGBT modules protection, Snubber, energy conversion,

High voltage, high current and high pulse applications

PHYSICAL CHARACTERISTICS

Construction: Extended double side metallized carrier film with internal series connection and metallized film

Coating: Solvent resistant plastic case with resin sealing . Flame retardant execution (UL94V-0).

Leads: Tinned copper lugs for screw fixing or soldering on PCBS (please refer to article table)

Dimensions: See article table for reference,

SPECIFIC REQUIREMENTS ARE AVAILABLE ON REQUEST

ELECTRICAL CHARACTERISTICS

RATED CAPACITANCE: 0.047μF to 5.6μF, refer to article table;

RATED VOLTAGE: 700,850,1000,1200,1500,2000,2500 VDC **(SPECIFIC VALUES AVAILABLE)**

DISSIPATION FACTOR: Measured at 1000±20 Hz AND 25±5℃.
When Cr≤1.0μF， 4×10^{-4}； When Cr>1.0μF， 6×10^{-4}

INSULATION RESISTANCE: 3000s but need not exceed 30GΩ (typical value)，after 1 minute of electrification at 100Vdc (25±5℃)

DIELECTRIC STRENGTH: 2Ur (DC) applied for 10s at 25±5℃ (1 minute for type test)

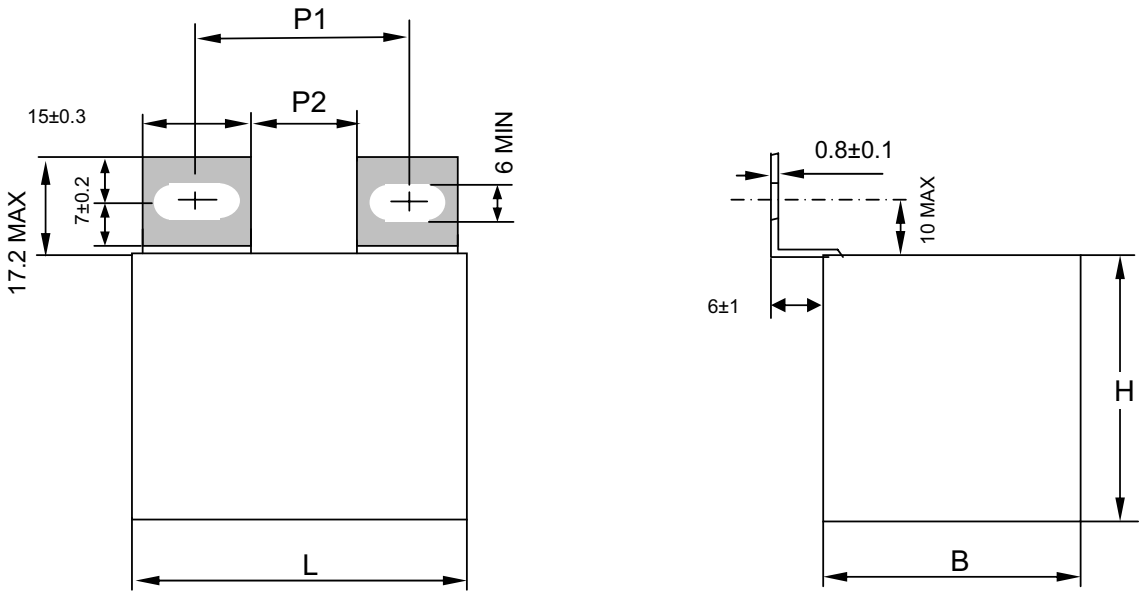
TEMPERATURE: operating temperature range: -40~+85℃

MAX. PERMISSIBLE AMBIENT TEMPERATURE: +70℃ (operation at rated power, rated current and natural cooling)

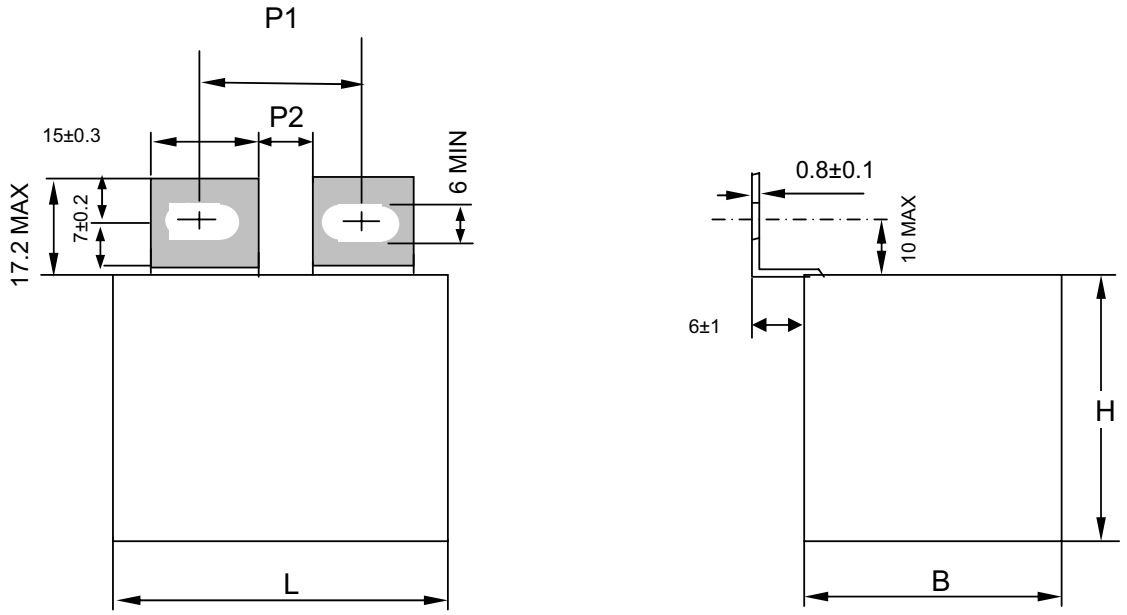
TYPICAL CAPACITANCE CHANGE VERSUS OPERATING TIMES : -3% after 30,000 hours at Urms or after 100,000 hours at Ur

MAXIMUN PULSE RISE TIME : Refer to article table

MASIMUM PEAK CURRENT (I peak) : Refer to article table



Style A



Style B

Dimensions in mm

L	A		B	
	P1	P2±1	P1	P2±1
44.5	23 - 28	11	20 - 25	8

Fixing pitch and distance between lugs (unit mm)
SPECIFIC REQUIREMENTS ARE AVAILABLE ON REQUEST

STM

EACO

Ur Vdc	Urms Vac (3)	Upk Vdc	Cap µF	Dimension in mm B	H	L	du/dt V/µs	Ipeak A	Irms (1) A	ESR (2) mΩ	Order Code
700	380	1000	1.2	26	29	44.5	325	390	16.5	3.1	STM074120#
700	380	1000	2	26	36	44.5	325	650	22	2.5	STM071200#
700	380	1000	2.2	34	36	44.5	325	715	22.5	2.4	STM074220#
700	380	1000	2.5	34	36	44.5	325	812	23	2.2	STM074250#
700	380	1000	3	34	45	44.5	325	975	26	2.1	STM074300#
700	380	1000	3.3	35	45	44.5	325	1072	26.5	2.1	STM074330#
700	380	1000	3.5	35	45	44.5	325	1140	27	2	STM074350#
700	380	1000	4	30	45	60	220	880	27	2.3	STM074400#
700	380	1000	4.7	38	54	57	220	1034	31	2.1	STM074470#
700	380	1000	5	38	54	57	220	1100	31	2.1	STM074500#
700	380	1000	5.6	38	54	57	220	1232	32	2	STM074560#
850	450	1200	0.82	26	29	44.5	400	328	15.5	3.1	STM083820#
850	450	1200	1	26	29	44.5	400	400	17.5	2.7	STM084100#
850	450	1200	1.5	34	36	44.5	400	600	23	2.2	STM084150#
850	450	1200	1.75	34	36	44.5	400	700	23.5	2.2	STM084175#
850	450	1200	2	34	45	44.5	400	800	26.5	2	STM084200#
850	450	1200	2.2	34	45	44.5	400	880	27	2	STM084220#
850	450	1200	2.5	34	45	44.5	400	1000	28	1.9	STM084250#
850	450	1200	3	30	45	60	280	840	28.5	2.2	STM084300#
850	450	1200	3.3	30	45	60	280	924	29.5	2.1	STM084330#
850	450	1200	4	38	54	57	280	1120	32	1.9	STM084400#
850	450	1200	4.7	38	54	57	280	1316	33	1.9	STM084470#
1000	480	1400	0.68	26	29	44.5	500	340	15	3.3	STM103680#
1000	480	1400	0.75	26	29	44.5	500	375	15.5	3.2	STM103750#
1000	480	1400	1.2	34	36	44.5	500	600	22	2.5	STM104120#
1000	480	1400	1.5	34	36	44.5	500	750	23.5	2.2	STM104150#
1000	480	1400	1.75	34	45	44.5	500	875	25.5	2.1	STM104175#
1000	480	1400	2	34	45	44.5	500	1000	26.5	2	STM104200#
1000	480	1400	2.2	30	45	60	350	770	26.5	2.5	STM104220#
1000	480	1400	3	38	54	57	350	1050	31	2.1	STM104300#
1000	480	1400	3.3	38	54	57	350	1155	31	2	STM104330#
1000	480	1400	3.5	38	54	57	350	1225	32	2	STM104350#
1200	500	1600	0.33	26	29	44.5	650	210	12	5.1	STM123330#
1200	500	1600	0.39	26	29	44.5	650	254	13	4.6	STM123390#
1200	500	1600	0.47	26	29	44.5	650	308	14	4.1	STM123470#
1200	500	1600	0.56	26	29	44.5	650	365	14.5	3.7	STM123560#
1200	500	1600	0.68	34	36	44.5	650	442	19	3.3	STM123680#
1200	500	1600	0.82	34	36	44.5	650	533	20	3	STM123820#
1200	500	1600	1	34	36	44.5	650	650	20.5	2.7	STM124100#
1200	500	1600	1.2	34	45	44.5	650	780	23.5	2.4	STM124120#
1200	500	1600	1.5	34	45	44.5	650	975	25	2.1	STM124150#
1200	500	1600	2	30	45	60	455	910	27	2.4	STM124200#
1200	500	1600	2.2	38	54	57	455	1000	30	2.4	STM124220#
1200	500	1600	2.5	38	54	57	455	1138	31	2.3	STM124250#
1200	500	1600	3	38	54	57	455	1365	32	2.1	STM124300#

(1) Maximum values at 100kHz, +70°C (2) Typical values at 100kHz- (3) **Not suitable for across the line application.**

STM

Ur Vdc	Urms Vac (3)	Upk Vdc	Cap µF	Dimension in mm B	H	W	du/dt V/µs	Ipeak A	Irms (1) A	ESR (2) mΩ	Order Code
1500	575	2000	0.33	26	29	44.5	800	264	13.5	4.6	STM153330#
1500	575	2000	0.39	26	29	44.5	800	312	14	4.3	STM153390#
1500	575	2000	0.47	34	36	44.5	800	376	18	3.7	STM153470#
1500	575	2000	0.68	34	36	44.5	800	544	19.5	3.1	STM153680#
1500	575	2000	0.75	34	36	44.5	800	600	20.5	2.8	STM153750#
1500	575	2000	1	34	45	44.5	800	800	23	2.5	STM154100#
1500	575	2000	1.2	30	45	60	560	672	25	2.8	STM154120#
1500	575	2000	1.5	38	54	57	560	840	28	2.5	STM154150#
1500	575	2000	1.8	38	54	57	560	1008	29.5	2.3	STM154180#
1500	575	2000	2	38	54	57	560	1120	30	2.2	STM154200#
2000	630	2400	0.1	26	29	44.5	1000	100	8	13	STM203100#
2000	630	2400	0.15	26	29	44.5	1000	150	10.5	7.5	STM203150#
2000	630	2400	0.22	26	29	44.5	1000	220	12	5.1	STM203220#
2000	630	2400	0.33	34	36	44.5	1000	330	16.5	4.1	STM203330#
2000	630	2400	0.39	34	36	44.5	1000	390	17.5	3.6	STM203390#
2000	630	2400	0.47	34	45	44.5	1000	470	20.5	3.2	STM203470#
2000	630	2400	0.56	34	45	44.5	1000	560	21.5	3	STM203560#
2000	630	2400	0.68	30	45	60	700	476	22.5	3.5	STM203680#
2000	630	2400	0.82	30	45	60	700	574	24	3.1	STM203820#
2000	630	2400	1	38	54	57	700	700	27	2.8	STM204100#
2000	630	2400	1.2	38	54	57	700	840	29	2.4	STM204120#
2000	630	2400	1.5	38	54	57	700	1050	30	2.3	STM204150#
2500	700	3000	0.1	26	29	44.5	1350	135	9	11.2	STM253100#
2500	700	3000	0.15	26	29	44.5	1350	202	11	7.2	STM253150#
2500	700	3000	0.22	34	36	44.5	1350	297	15	5.2	STM253220#
2500	700	3000	0.33	34	36	44.5	1350	445	18	3.8	STM253330#
2500	700	3000	0.47	34	45	44.5	1350	634	22	3	STM253470#
2500	700	3000	0.56	30	45	60	945	529	22.5	3.5	STM253560#
2500	700	3000	0.68	38	54	57	945	643	25	3.2	STM253680#
2500	700	3000	0.82	38	54	57	945	775	26	2.9	STM253820#

(1) Maximum values at 100kHz, +70°C (2) Typical values at 100kHz- (3) **Not suitable for across the line application**.