

产品结构

介质： 金属化聚丙烯薄膜
 外壳： 塑料外壳封装,
 内部灌封： 树脂填充 (UL94 V-0)

电气特性

工作温度： -40℃ 至 +105℃
 容量范围： 0.047 至 10μF
 额定电压： 700 至 3000VDC
 容量偏差： ±5%, ±10%
 损耗因素： $\leq 6 \times 10^{-4}$ @ 1KHz, 20±5℃
 预期寿命： 100,000 小时 @ Un, 70℃ (热点温度)
 极间耐压： 1.5Un (DC) @ 10s, 20±5℃
 极壳耐压： (1.5Un+1000)VAC, 最小 3000VAC (10s, 50Hz)
 绝缘电阻： (IR×Cn) 30000s (不超过 30GΩ),
 100VDC (20±5℃), 1 分钟



应用

IGBT 模块突波吸收 嵌位

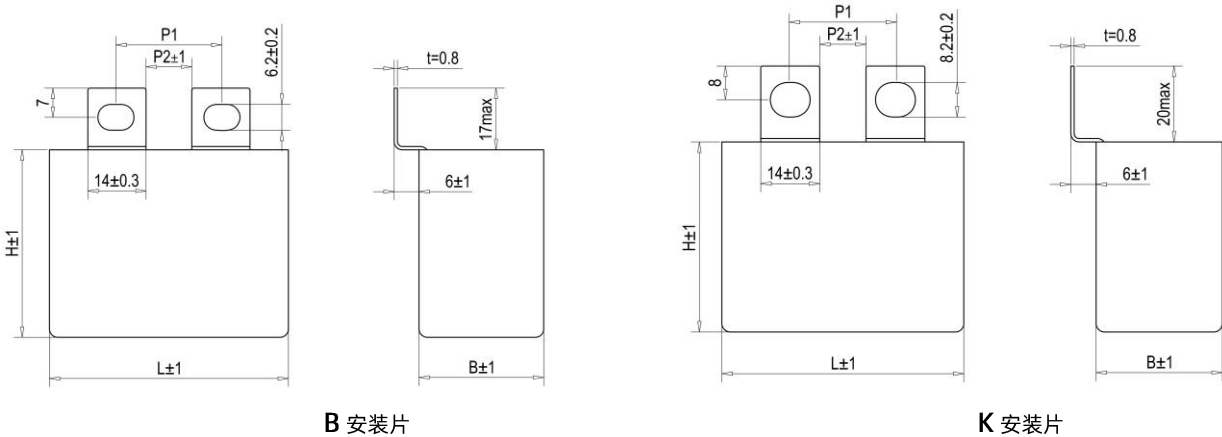
安装片说明

根据安装方式选择相应的规格
 订货代码含有 2 个变量，对于相应的选择规格

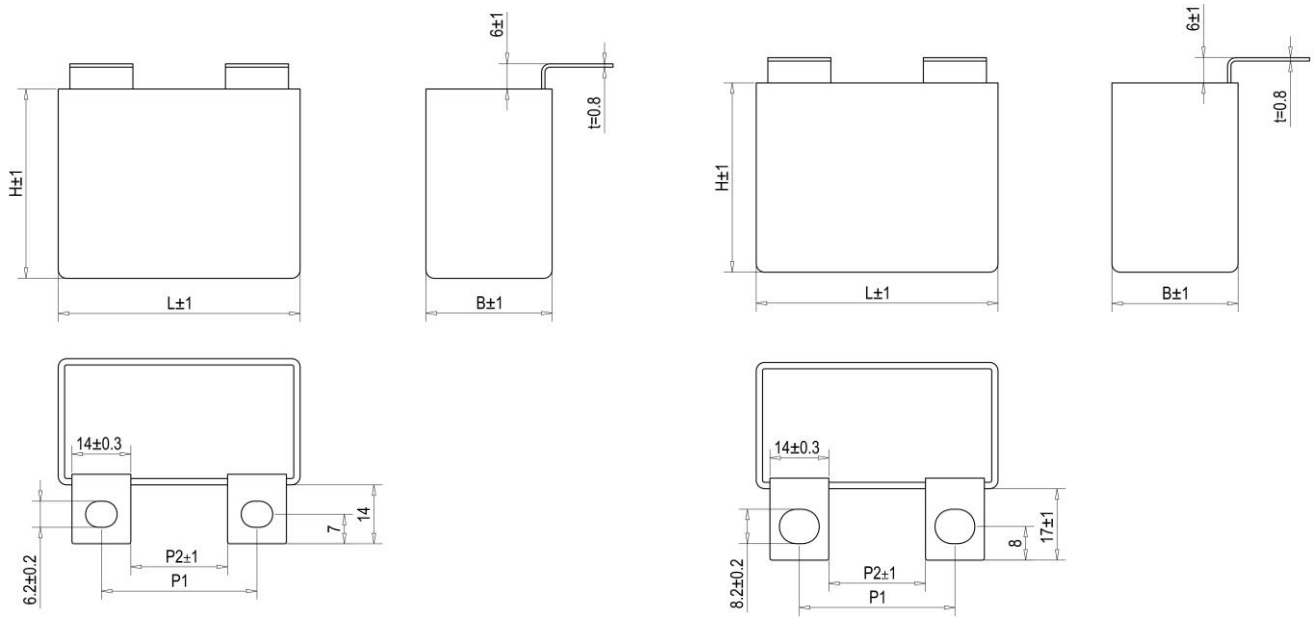
订货代码说明： STM - 1200 - 0.47 - & P #

P2 片距

安装片代码： B. K. U. C. UF. CF. N. R. G. T. TF. E. D 等



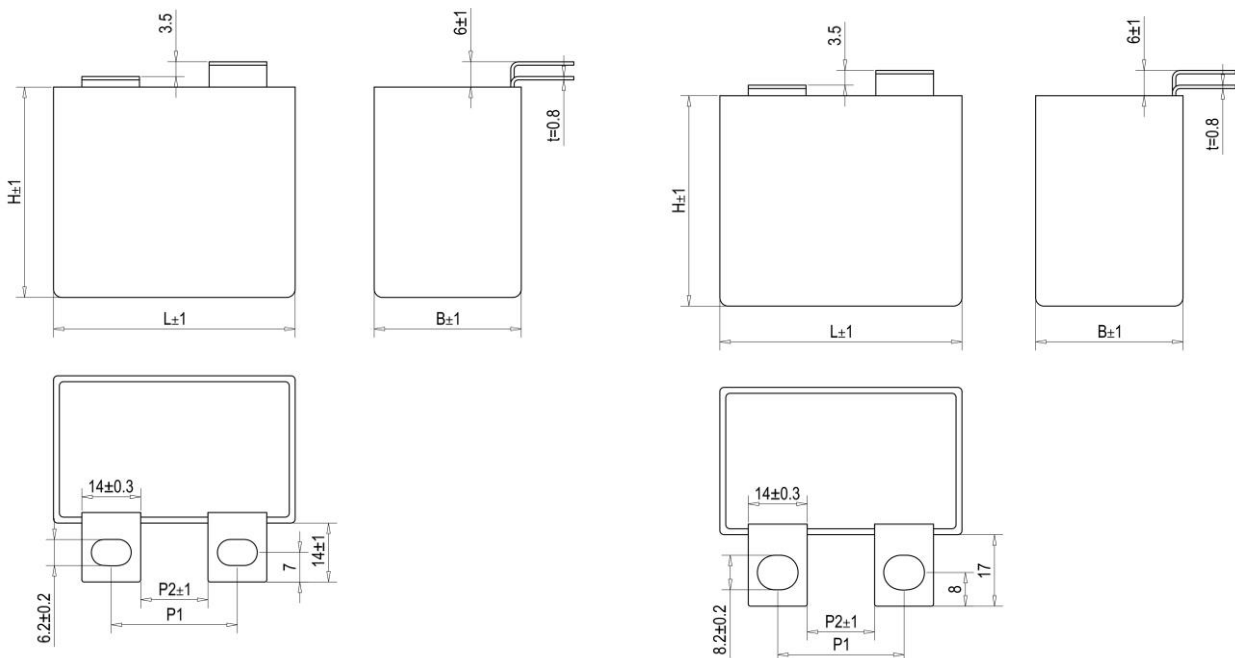
外壳长度 L	B 安装片 安装孔径：M6				K 安装片 安装孔径：M8			
	P2	P1	P2	P1	P2	P1	P2	P1
42.5	11	23 - 28	8	20 - 25	11	24 - 26	8	21 - 23
57.5	11	23 - 28	24	36 - 41	11	24 - 26	24	37 - 39



U 安装片

C 安装片

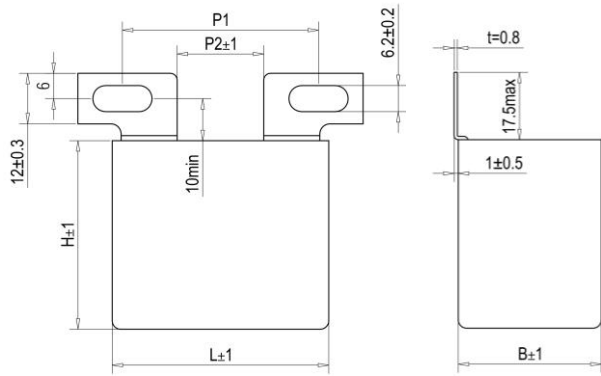
外壳长度 L	U 安装片 安装孔径 : M6				C 安装片 安装孔径 : M8			
	P2	P1	P2	P1	P2	P1	P2	P1
42.5	11	23 - 28	8	20 - 25	11	24 - 26	8	21 - 23
57.5	11	23 - 28	24	36 - 41	11	24 - 26	24	37 - 39



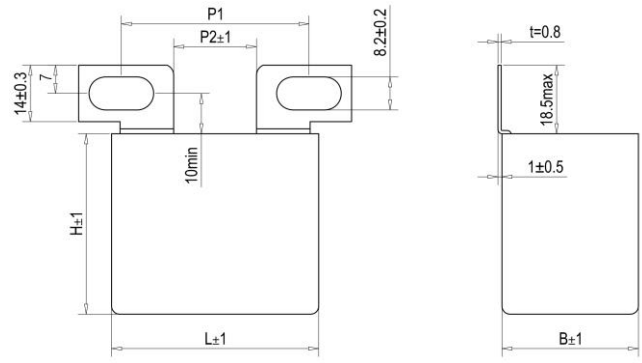
UF 安装片

CF 安装片

外壳长度 L	UF 安装片 安装孔径 : M6				CF 安装片 安装孔径 : M8			
	P2	P1	P2	P1	P2	P1	P2	P1
42.5	11	23 - 28	8	20 - 25	11	24 - 26	8	21 - 23
57.5	11	23 - 28	24	36 - 41	11	24 - 26	24	37 - 39

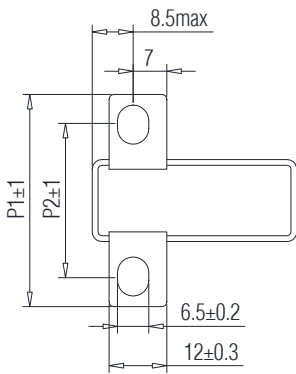
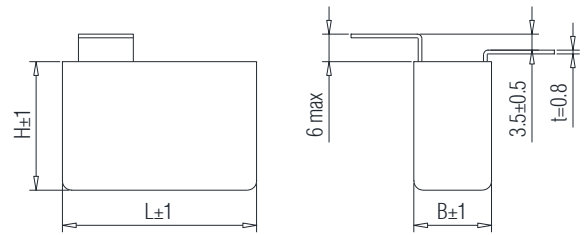
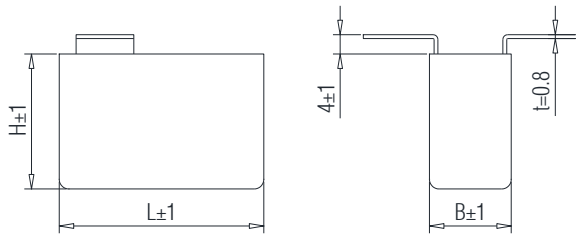


R 安装片

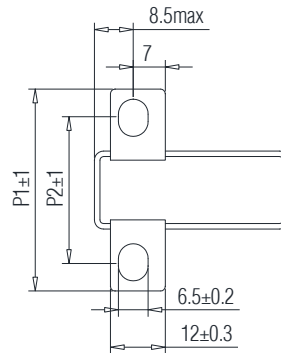


G 安装片

外壳长度 L	R 安装片 安装孔径 : M6				G 安装片 安装孔径 : M8			
	P2	P1	P2	P1	P2	P1	P2	P1
42.5	11	29 - 41	15	33 - 45	8	33 - 42	15	40 - 49
57.5	11	29 - 41	15	33 - 45	15	40 - 49	24	49 - 58
			28	46 - 58			28	53 - 62

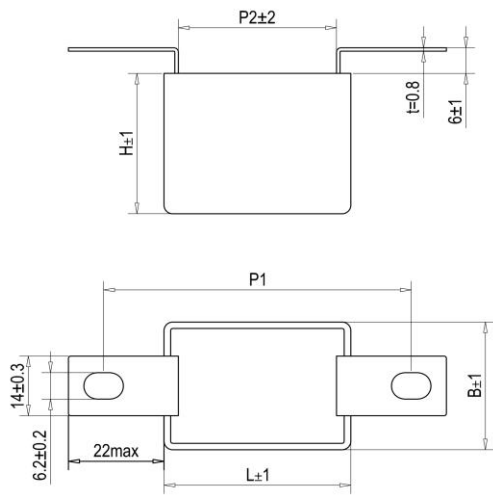


T 安装片

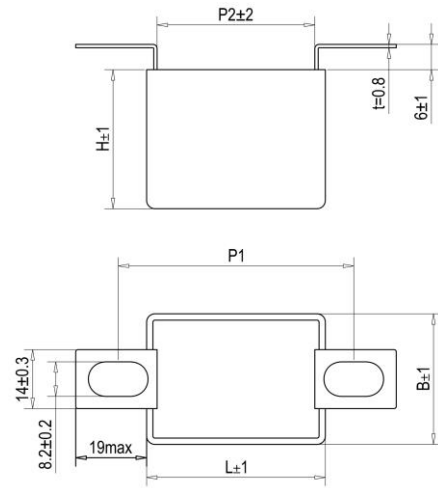


TF 安装片

外壳厚度 B	T 安装片 安装孔径 : M6		TF 安装片 安装孔径 : M6	
	P2	P1	P2	P1
15	30	42	30	42
17	32	44	32	44

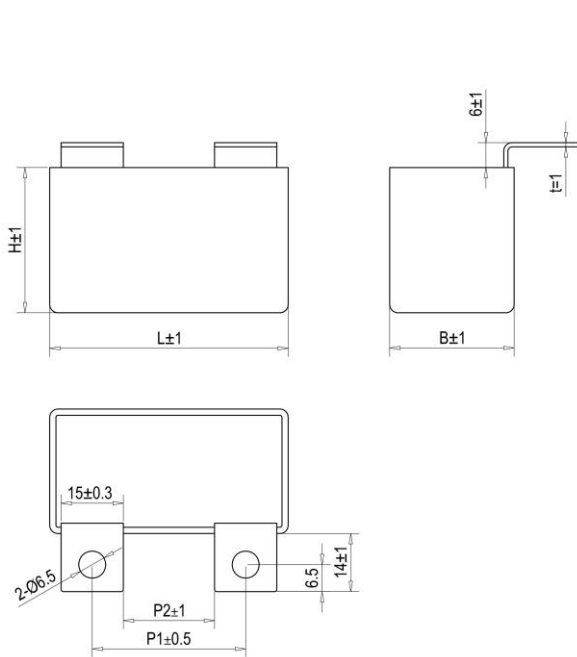


D 安装片

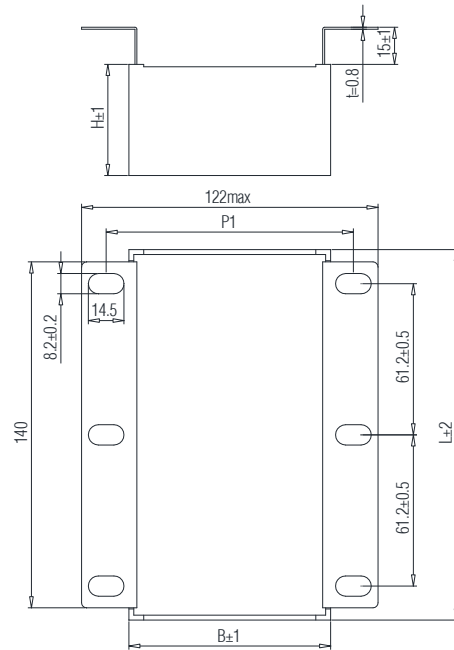


E 安装片

外壳长度 L	D 安装片 安装孔径 : M6		E 安装片 安装孔径 : M8	
	P2	P1	P2	P1
42.5	37	67 - 73	37	50 - 64
57.5	52	82 - 88	52	65 - 79



N 安装片



L 安装片

外壳长度 L	N 安装片 安装孔径 : M6		L 安装片 安装孔径 : M8	
	P2	P1	P2	P1
42.5	8	23	150	76
57.5	13	28		94-107
	22	37		

特性参数

订货代码	容量 (μF)	尺寸(mm)			Du/dt (v/ μs)	I _{peak} (A)	L _s (nH)	I _{Max} @60°C @10KHz (A)	ESR@100KHz (m Ω)
		L	B	H					
Un 700VDC , Urms 380VAC , Us 1050V									
STM-700-1.0-&S#	1.0	42.5	22.0	30.0	325	325	≤25	14.5	4.3
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-&S#	2.0	42.5	28.0	37.0	325	650	≤25	21.5	3.2
STM-700-2.5-&P#	2.5	42.5	33.5	35.5	325	812	≤25	23.0	2.5
STM-700-3.0-&P#	3.0	42.5	33.0	45.0	325	975	≤25	26.0	2.4
STM-700-3.5-&P#	3.5	42.5	33.0	45.0	325	1134	≤25	27.0	2.0
STM-700-4.0-&P#	4.0	57.5	30.0	45.0	220	880	≤35	27.0	2.3
STM-700-4.7-&P#	4.7	57.5	35.0	50.0	220	1034	≤35	31.0	2.1
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-&S#	10	57.5	42.5	56.0	220	2200	≤35	33.0	1.8
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-&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
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-1200-2.5-&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 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-&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-&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

特性参数

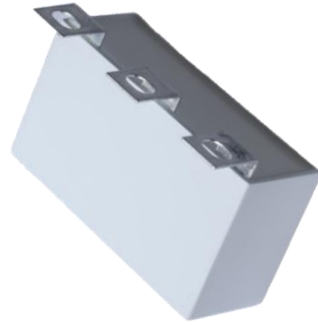
订货代码	容量 (μF)	尺寸(mm)			Du/dt (v/ μs)	I _{peak} (A)	L _s (nH)	I _{max} @60°C @10KHz (A)	ESR@100KHz (m Ω)
		L	B	H					
Un 1700VDC , Urms 575VAC , Us 2550V									
STM-1700-1.0-&P#	1.0	57.5	30.0	45.0	610	610	≤ 35	23.5	5.3
STM-1700-1.2-&P#	1.2	57.5	30.0	45.0	610	732	≤ 35	26.2	4.5
STM-1700-1.5-&P#	1.5	57.5	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-&S#	0.10	42.5	15.0	26.0	1000	100	≤ 25	7.5	25.7
STM-2000-0.15-&S#	0.15	42.5	17.0	28.0	1000	150	≤ 25	10.0	14.7
STM-2000-0.22-&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-2000-0.47-&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 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-3000-0.068-&P#	0.068	42.5	24.5	27.5	1600	108	≤ 25	9.0	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-&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-3000-0.33-&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
Un 4000VDC , Urms 870VAC , Us 6000V									
STM-4000-0.047-&P#	0.047	42.5	24.5	27.5	3500	165	20	7.2	16.7
STM-4000-0.10-&P#	0.10	42.5	33.5	35.5	3500	350	20	11.8	8.3
STM-4000-0.10-&P#	0.10	42.5	33.5	35.5	3500	350	20	11.8	8.3
STM-4000-0.15-&P#	0.15	42.5	33	45	3500	525	20	14.8	5.9
STM-4000-0.22-&P#	0.22	57.5	30	45	2000	440	35	15.6	6.2
STM-4000-0.15-&P#	0.15	42.5	33	45	3500	525	20	14.8	5.9
STM-4000-0.33-&P#	0.33	57.5	35	50	2000	660	35	19.8	4.4
STM-4000-0.47-&P#	0.47	57.5	42.5	56	2000	940	35	24.5	3.4
Un 4500VDC , Urms 1000VAC , Us 6750V									
STM-4500-0.033-&P#	0.033	42.5	24.5	27.5	4000	132	20	6.3	21.8
STM-4500-0.068-&P#	0.068	42.5	33.5	35.5	4000	272	20	10.3	11.0
STM-4500-0.10-&P#	0.10	42.5	33	45	4000	400	20	12.8	7.8
STM-4500-0.15-&P#	0.15	57.5	30	45	2400	360	35	13.9	7.8
STM-4500-0.22-&P#	0.22	57.5	35	50	2400	528	35	17.5	5.6
STM-4500-0.35-&P#	0.35	57.5	42.5	56	2400	840	35	22.9	3.9
STM-4500-1.0-&P#	1.0	150	82	45	950	950	50	30.0	2.0
STM-4500-1.5-&P#	1.5	150	82	45	950	1425	50	45.0	1.7

产品结构

介质：金属化聚丙烯薄膜
 外壳：塑料外壳封装
 内部灌封：树脂填充 (UL94 V-0)

电气特性

工作温度：-40 °C 至 +105 °C
 容量范围：2×0.22 至 2×3.0μF
 额定电压：700 至 1700 VDC
 容量偏差：±5% , ±10%
 损耗因素：≤6×10⁻⁴ @1KHz, 20±5°C
 预期寿命：100,000 小时 @ Un, 70 °C (热点温度)
 极间耐压：1.5Un (DC) @ 10s, 20±5°C
 极壳耐压：(1.5Un+1000)VAC, 最小 3000VAC (10s, 50Hz)
 绝缘电阻：(IR×Cn) 30000s (不超过 30GΩ),
 100VDC (20±5°C), 1 分钟



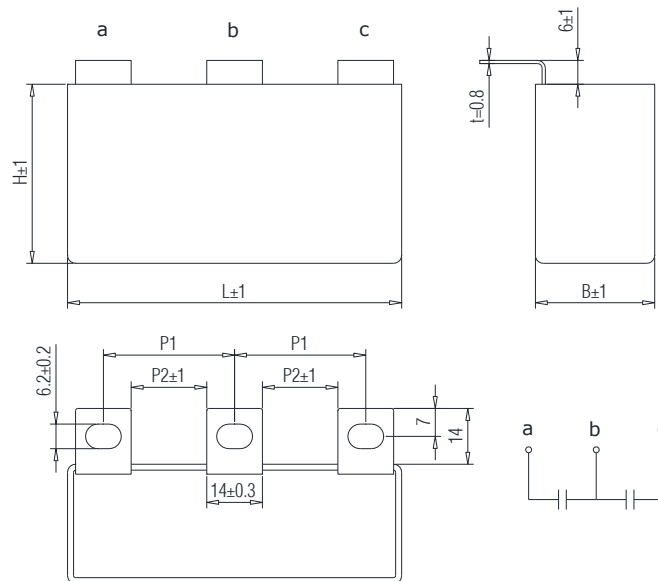
应用

三电平 IGBT 模块突波吸收

订货代码说明:

STM -1200 -2×0.47 - U P #

P2 片距



安装孔尺寸和安装片间距(mm)

安装片 U 安装孔径 : M6			
P2	P1	P2	P1
11	23-28	19	31-36

特性参数

订货代码	容量 (μF)	尺寸(mm)			Du/dt ($\text{V}/\mu\text{s}$)	I _{peak} (A)	L _s (nH)	I _{Max} @60°C @10KHz (A)	ESR@100KHz ($\text{m}\Omega$)
		L	B	H					
Un 700VDC , Urms 380VAC , Us 1050V									
STM-700-2x1.0-UP#	2x1.0	72.5	30.0	45.0	325	325	≤ 35	2x16.9	2x3.2
STM-700-2x1.2-UP#	2x1.2	72.5	30.0	45.0	325	390	≤ 35	2x17.5	2x3.0
STM-700-2x1.5-UP#	2x1.5	72.5	30.0	45.0	325	488	≤ 35	2x18.5	2x2.7
STM-700-2x2.0-UP#	2x2.0	72.5	30.0	45.0	325	650	≤ 35	2x19.7	2x2.3
STM-700-2x2.2-UP#	2x2.2	72.5	30.0	45.0	325	715	≤ 35	2x20.4	2x2.2
STM-700-2x2.5-UP#	2x2.5	84.0	30.0	45.0	325	813	≤ 35	2x22.5	2x2.0
STM-700-2x3.0-UP#	2x3.0	84.0	30.0	45.0	325	975	≤ 35	2x23.9	2x1.8
Un 1200VDC , Urms 500VAC , Us 1800V									
STM-1200-2x0.47-UP#	2x0.47	72.5	30.0	45.0	650	306	≤ 35	2x14.3	2x4.5
STM-1200-2x0.56-UP#	2x0.56	72.5	30.0	45.0	650	364	≤ 35	2x15.3	2x3.9
STM-1200-2x0.68-UP#	2x0.68	72.5	30.0	45.0	650	442	≤ 35	2x16.5	2x3.3
STM-1200-2x0.82-UP#	2x0.82	72.5	30.0	45.0	650	533	≤ 35	2x17.2	2x3.1
STM-1200-2x1.0-UP#	2x1.0	72.5	30.0	45.0	650	650	≤ 35	2x18.1	2x2.8
STM-1200-2x1.2-UP#	2x1.2	84.0	30.0	45.0	650	780	≤ 35	2x20.5	2x2.4
STM-1200-2x1.5-UP#	2x1.5	84.0	30.0	45.0	650	975	≤ 35	2x21.8	2x2.2
Un 1700VDC , Urms 575VAC , Us 2550V									
STM-1700-2x0.22-UP#	2x0.22	72.5	30.0	45.0	880	194	≤ 35	2x11.6	2x6.7
STM-1700-2x0.33-UP#	2x0.33	72.5	30.0	45.0	880	290	≤ 35	2x13.2	2x5.2
STM-1700-2x0.47-UP#	2x0.47	72.5	30.0	45.0	880	414	≤ 35	2x15.1	2x4.0
STM-1700-2x0.56-UP#	2x0.56	72.5	30.0	45.0	880	493	≤ 35	2x16.2	2x3.5
STM-1700-2x0.68-UP#	2x0.68	72.5	30.0	45.0	880	598	≤ 35	2x17.2	2x3.1
STM-1700-2x0.82-UP#	2x0.82	84.0	30.0	45.0	880	722	≤ 35	2x19.6	2x2.7
STM-1700-2x1.0-UP#	2x1.0	84.0	30.0	45.0	880	880	≤ 35	2x20.3	2x2.5