

■ GENERAL TECHNICAL CHARACTERISTICS 技术特性

Reference standards 参考标准	IEC 61071, IEC 60068
Dielectric 介质材料	Polypropylene film
Construction 封装结构	Dry construction, Non-inductive type
Case 外壳材料	Solvent resistant plastic case. Flammability class UL94 V-0
Leads 引出端	Tinned copper lugs for screw fixing or soldering on PCBS

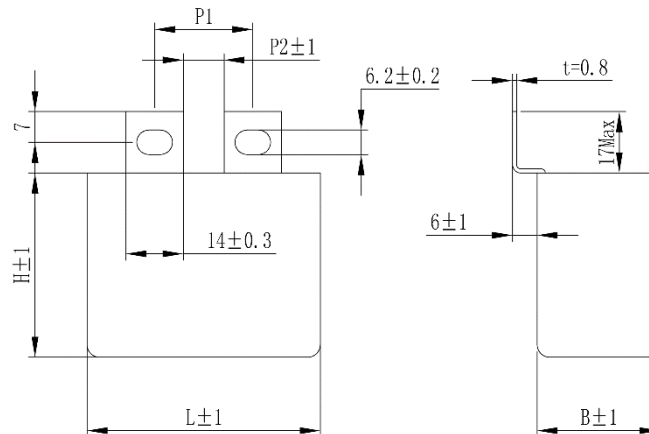
■ ELECTRICAL CHARACTERISTICS 电气特性

Operating temperature 工作温度范围	- 40 to + 105 °C
Capacitance range 容量范围	0.047 to 10 μ F
Rated voltage range 额定电压	700 to 3000 Vdc
Capacitance tolerance 容量偏差	$\pm 5\%$, $\pm 10\%$
Dissipation factor 损耗角正切	$\leq 6.0 \times 10^{-4}$ Measured at 1000 Hz and $20 \pm 5^\circ\text{C}$
Life expectancy 预期寿命	100,000 hours at U_{NDC} and 70°C (Hot-spot temperature)

■ TEST METHODS AND PERFORMANCES 测试方法

Dielectric strength 介质强度	$1.5 \times U_{\text{NDC}}$ applied to 10s at $20 \pm 5^\circ\text{C}$
Test voltage terminal to case 端壳耐压	3KVAC/50Hz for 10s
Insulation resistance($IR \cdot C_N$) 绝缘电阻	30000s but need not exceed $30G\Omega$, after 1 minute of electrification at 100VDC ($20 \pm 5^\circ\text{C}$)

■ OUTLINE DRAWING 外形图



■ HOW TO ORDER:

K8M	152D	684	K	S	B	B	11	***
Series Code:	Voltage:	Capacitance:	Cap. Tol.:	Shape:	Lug Style:	Size:	Lug	Internal
K8M:	102D: 1000Vdc	105: 1.0 μ F	J: $\pm 5\%$,	S: Square	B, K, U, C, UF,	B: bigger size	Spacing	Code
ASM Series	101D: 100Vdc	104: 0.1 μ F	K: $\pm 10\%$		CF, R, G, T,	S: smaller size	P2	
		103: 0.01 μ F			TF, E, L (Refer to next page)		11mm	

ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

Part Number	Cap (μF)	Dimension			Du/dt (v/μs)	Ipeak (A)	Ls (nH)	Imax @ 60°C @10KHz (A)	ESR @100KHz (mΩ)
		L	B	H					
U _{NDC} 700Vdc, Urms 380Vac, Us 1050V									
K8M701D105KS#B#***	1.0	42.5	24.5	27.5	325	325	25	15.0	4.3
K8M701D125KS#B#***	1.2	42.5	24.5	27.5	325	390	25	16.0	3.1
K8M701D155KS#B#***	1.5	42.5	22.0	30.0	325	487	25	18.0	3.5
K8M701D205KS#B#***	2.0	42.5	33.5	35.5	325	650	25	22.0	3.2
K8M701D205KS#S#***	2.0	42.5	28.0	37.0	325	650	25	21.5	3.2
K8M701D225KS#B#***	2.2	42.5	33.5	35.5	325	715	25	22.5	2.4
K8M701D225KS#S#***	2.2	42.5	28.0	37.0	325	715	25	22.0	2.4
K8M701D255KS#B#***	2.5	42.5	33.5	35.5	325	812	25	23.0	2.5
K8M701D255KS#S#***	2.5	42.5	28.0	37.0	325	812	25	22.5	2.5
K8M701D305KS#B#***	3.0	42.5	33.0	45.0	325	975	25	26.0	2.4
K8M701D305KS#S#***	3.0	42.5	30.0	45.0	325	975	25	25.5	2.4
K8M701D335KS#B#***	3.3	42.5	33.0	45.0	325	1072	25	26.5	2.4
K8M701D335KS#S#***	3.3	42.5	30.0	45.0	325	1072	25	26.0	2.4
K8M701D355KS#B#***	3.5	42.5	33.0	45.0	325	1134	25	27.0	2.0
K8M701D355KS#S#***	3.5	42.5	30.0	45.0	325	1134	25	26.5	2.0
K8M701D405KS#B#***	4.0	57.5	30.0	45.0	220	880	35	27.0	2.3
K8M701D405KS#S#***	4.0	42.5	33.0	45.0	325	1300	25	32.0	1.8
K8M701D475KS#B#***	4.7	57.5	35.0	50.0	220	1034	35	31.0	2.1
K8M701D475KS#S#***	4.7	57.5	30.0	45.0	220	1034	35	30.5	2.1
K8M701D505KS#B#***	5.0	57.5	35.0	50.0	220	1100	35	31.0	2.5
K8M701D505KS#S#***	5.0	57.5	30.0	45.0	220	1100	35	30.5	2.5
K8M701D565KS#B#***	5.6	57.5	35.0	50.0	220	1232	35	32.0	2.0
K8M701D685KS#B#***	6.8	57.5	35.0	50.0	220	1496	35	32.0	2.0
K8M701D106KS#B#***	10	57.5	42.5	56.0	220	2200	35	33.0	1.8
U _{NDC} 850Vdc, Urms 450Vac, Us 1275V									
K8M851D824KS#B#***	0.82	42.5	24.5	27.5	400	328	25	15.5	4.6
K8M851D105KS#B#***	1.0	42.5	24.5	27.5	400	400	25	17.5	4.0
K8M851D105KS#S#***	1.0	42.5	22.0	30.0	400	400	25	17.0	4.0
K8M851D155KS#B#***	1.5	42.5	33.5	35.5	400	600	25	23.0	2.2
K8M851D155KS#S#***	1.5	42.5	28.0	37.0	400	600	25	22.5	2.2
K8M851D205KS#B#***	2.0	42.5	33.5	35.5	400	800	25	23.5	2.2
K8M851D225KS#B#***	2.2	42.5	30.0	45.0	400	880	25	26.5	2.2
K8M851D255KS#B#***	2.5	42.5	33.0	45.0	400	1000	25	27.0	2.9
K8M851D255KS#S#***	2.5	42.5	30.0	45.0	400	1000	25	26.5	2.9
K8M851D305KS#B#***	3.0	57.5	30.0	45.0	280	840	35	28.0	3.4
K8M851D335KS#B#***	3.3	57.5	30.0	45.0	280	924	35	28.5	3.4
K8M851D405KS#B#***	4.0	57.5	35.0	50.0	280	1120	35	29.5	2.1
K8M851D475KS#B#***	4.7	57.5	35.0	50.0	280	1316	35	32.0	2.2
K8M851D685KS#B#***	6.8	57.5	42.5	56.0	280	1904	35	33.0	1.7
U _{NDC} 1000Vdc, Urms 480Vac, Us 1500V									
K8M102D684KS#B#***	0.68	42.5	24.5	27.5	500	340	25	15.0	5.3
K8M102D754KS#B#***	0.75	42.5	24.5	27.5	500	375	25	15.5	4.7
K8M102D754KS#S#***	0.75	42.5	22.0	30.0	500	375	25	15.0	4.7
K8M102D105KS#B#***	1.0	42.5	28.0	37.0	500	500	25	17.0	3.5
K8M102D125KS#B#***	1.2	42.5	33.5	35.5	500	600	25	22.0	3.2
K8M102D125KS#S#***	1.2	42.5	28.0	37.0	500	600	25	21.5	3.2
K8M102D155KS#B#***	1.5	42.5	33.5	35.5	500	750	25	23.5	2.5
K8M102D1754KS#B#***	1.75	42.5	33.0	45.0	500	875	25	23.5	2.1
K8M102D1754KS#S#***	1.75	42.5	30.0	45.0	500	875	25	23.0	2.1
K8M102D205KS#B#***	2.0	42.5	33.0	45.0	500	1000	25	26.5	2.3
K8M102D225KS#B#***	2.2	57.5	30.0	45.0	350	770	35	26.5	2.7
K8M102D255KS#B#***	2.5	57.5	30.0	45.0	350	875	35	28.0	2.9

Remark: 1. # Lug Style; # P2; *** Internal code.

2. Customization for special specification and requirement is available.

ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

Part Number	Cap (μF)	Dimension			Du/dt (v/μs)	Ipeak (A)	Ls (nH)	Imax @ 60℃ @10KHz (A)	ESR @100KHz (mΩ)
		L	B	H					
U _{NDC} 1200Vdc, Urms 500Vac, Us 1800V									
K8M102D305KS#B#***	3.0	57.5	35.0	50.0	350	1050	35	31.0	3.4
K8M102D335KS#B#***	3.3	57.5	35.0	50.0	350	1155	35	31.0	2.5
K8M102D505KS#B#***	5.0	57.5	42.5	56.0	350	1750	35	33.0	1.6
K8M122D224KS#B#***	0.22	42.5	24.5	27.5	650	143	25	11.5	12.8
K8M122D224KS#S#***	0.22	42.5	15.0	26.0	650	143	25	11.0	12.8
K8M122D334KS#B#***	0.33	42.5	24.5	27.5	650	210	25	12.0	8.9
K8M122D334KS#S#***	0.33	42.5	15.0	26.0	650	210	25	11.5	8.9
K8M122D394KS#B#***	0.39	42.5	24.5	27.5	650	254	25	13.0	7.3
K8M122D394KS#S#***	0.39	42.5	17.0	28.0	650	254	25	12.5	7.3
K8M122D474KS#B#***	0.47	42.5	24.5	27.5	650	306	25	14.0	7.0
K8M122D474KS#S#***	0.47	42.5	22.0	30.0	650	306	25	13.5	7.0
K8M122D564KS#B#***	0.56	42.5	22.0	30.0	650	364	25	14.0	5.3
K8M122D564KS#S#***	0.56	42.5	24.5	27.5	650	364	25	14.5	5.3
K8M122D684KS#B#***	0.68	42.5	33.5	35.5	650	442	25	19.0	4.6
K8M122D684KS#S#***	0.68	42.5	22.0	30.0	650	442	25	18.5	4.6
K8M122D824KS#B#***	0.82	42.5	33.5	35.5	650	533	25	20.0	3.9
K8M122D824KS#S#***	0.82	42.5	28.0	37.0	650	533	25	19.5	3.9
K8M122D105KS#B#***	1.0	42.5	33.5	35.5	650	650	25	20.5	3.4
K8M122D105KS#S#***	1.0	42.5	28.0	37.0	650	650	25	20.0	3.4
K8M122D125KS#B#***	1.2	42.5	33.0	45.0	650	780	25	23.5	3.1
K8M122D125KS#S#***	1.2	42.5	30.0	45.0	650	780	25	23.0	4.2
K8M122D155KS#B#***	1.5	42.5	33.0	45.0	650	975	25	25.0	4.1
K8M122D155KS#S#***	1.5	42.5	30.0	45.0	650	975	25	24.5	4.1
K8M122D205KS#B#***	2.0	57.5	30.0	45.0	455	910	35	27.0	3.6
K8M122D225KS#B#***	2.2	57.5	35.0	50.0	455	1001	35	30.0	3.5
K8M122D225KS#S#***	2.2	57.5	30.0	45.0	455	1001	35	29.5	3.5
K8M122D255KS#B#***	2.5	57.5	35.0	50.0	455	1138	35	31.0	3.2
K8M122D305KS#B#***	3.0	57.5	35.0	50.0	455	1365	35	32.0	3.1
K8M122D455KS#B#***	4.5	57.5	42.5	56.0	455	2047	35	33.0	3.0
U _{NDC} 1500Vdc, Urms 570Vac, Us 2250V									
K8M152D334KS#B#***	0.33	42.5	24.5	27.5	800	264	25	13.5	7.4
K8M152D394KS#B#***	0.39	42.5	22.0	30.0	800	312	25	13.5	7.2
K8M152D474KS#B#***	0.47	42.5	33.5	35.5	800	376	25	18.0	5.3
K8M152D474KS#S#***	0.47	42.5	28.0	37.0	800	376	25	17.5	5.3
K8M152D684KS#B#***	0.68	42.5	33.5	35.5	800	544	25	19.5	4.6
K8M152D684KS#S#***	0.68	42.5	28.0	37.0	800	544	25	19.0	4.6
K8M152D754KS#B#***	0.75	42.5	33.5	35.5	800	600	25	20.5	4.5
K8M152D105KS#B#***	1.0	42.5	33.0	45.0	800	800	25	23.0	4.5
K8M152D105KS#S#***	1.0	42.5	30.0	45.0	800	800	25	22.5	4.5
K8M152D125KS#B#***	1.2	57.5	30.0	45.0	560	672	35	25.0	4.2
K8M152D155KS#B#***	1.5	57.5	35.0	50.0	560	840	35	28.0	4.1
K8M152D185KS#B#***	1.8	57.5	35.0	50.0	560	1008	35	29.5	4.0
K8M152D255KS#B#***	2.5	57.5	42.5	56.0	560	1400	35	31.0	4.0
U _{NDC} 1700Vdc, Urms 575Vac, Us 2550V									
K8M172D224KS#B#***	0.22	42.5	24.5	27.5	880	194	25	13.2	10.2
K8M172D224KS#S#***	0.22	42.5	17.0	28.0	880	194	25	13.0	10.2
K8M172D334KS#B#***	0.33	42.5	24.5	27.5	880	290	25	14.0	7.9
K8M172D334KS#S#***	0.33	42.5	22.0	30.0	880	290	25	13.5	7.9
K8M172D474KS#B#***	0.47	42.5	33.5	35.5	880	413	25	19.0	5.6
K8M172D474KS#S#***	0.47	42.5	28.0	37.0	880	413	25	18.5	5.6
K8M172D564KS#B#***	0.56	42.5	33.5	35.5	880	492	25	19.5	5.5
K8M172D564KS#S#***	0.56	42.5	28.0	37.0	880	492	25	19.0	5.5

Remark: 1. # Lug Style; # P2; *** Internal code.

2. Customization for special specification and requirement is available.

ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

Part Number	Cap (μF)	Dimension			Du/dt (v/μs)	Ipeak (A)	Ls (nH)	Imax @ 60℃ @10KHz (A)	ESR @100KHz (mΩ)
		L	B	H					
U _{NDc} 1700Vdc, Urms 575Vac, Us 2550V									
K8M172D684KS#B#***	0.68	42.5	33.5	35.5	880	598	25	20.0	5.4
K8M172D824KS#B#***	0.82	42.5	33.0	45.0	880	721	25	22.1	5.4
K8M172D824KS#S#***	0.82	42.5	30.0	45.0	880	721	25	19.5	5.4
K8M172D105KS#B#***	1.0	57.5	30.0	45.0	610	610	35	23.5	5.3
K8M172D125KS#B#***	1.2	57.5	30.0	45.0	610	732	35	26.2	4.5
K8M172D155KS#B#***	1.5	57.5	35.0	50.0	610	915	35	28.5	3.7
K8M172D225KS#B#***	2.2	57.5	42.5	56.0	610	1342	35	30.0	3.5
U _{NDc} 2000Vdc, Urms 630Vac, Us 3000V									
K8M202D104KS#B#***	0.10	42.5	24.5	27.5	1000	100	25	8.0	26.7
K8M202D104KS#S#***	0.10	42.5	15.0	26.0	1000	100	25	8.5	26.7
K8M202D154KS#B#***	0.15	42.5	24.5	27.5	1000	150	25	10.5	14.7
K8M202D154KS#S#***	0.15	42.5	17.0	26.0	1000	150	25	10.0	14.7
K8M202D224KS#B#***	0.22	42.5	24.5	27.5	1000	220	25	12.0	10.5
K8M202D224KS#S#***	0.22	42.5	22.0	30.0	1000	220	25	11.5	10.5
K8M202D334KS#B#***	0.33	42.5	33.5	35.5	1000	330	25	16.5	9.5
K8M202D334KS#S#***	0.33	42.5	28.0	37.0	1000	330	25	16.0	9.5
K8M202D394KS#B#***	0.39	42.5	33.5	35.5	1000	390	25	17.5	6.7
K8M202D394KS#S#***	0.39	42.5	28.0	37.0	1000	390	25	17.0	6.7
K8M202D474KS#B#***	0.47	42.5	33.0	45.0	1000	470	25	20.5	5.2
K8M202D474KS#S#***	0.47	42.5	28.0	37.0	1000	470	25	20.0	5.2
K8M202D564KS#B#***	0.56	42.5	33.0	45.0	1000	560	25	21.5	4.3
K8M202D684KS#B#***	0.68	57.5	30.0	45.0	700	476	35	22.5	5.7
K8M202D824KS#B#***	0.82	57.5	30.0	45.0	700	574	35	24.0	4.5
K8M202D105KS#B#***	1.0	57.5	35.0	50.0	700	700	35	27.0	4.5
K8M202D125KS#B#***	1.2	57.5	35.0	50.0	700	840	35	29.0	4.2
K8M202D185KS#B#***	1.8	57.5	42.5	56.0	700	1260	35	31.0	4.0
U _{NDc} 2500Vdc, Urms 700Vac, Us 3750V									
K8M252D104KS#B#***	0.10	42.5	24.5	27.5	1350	135	25	9.0	18.7
K8M252D154KS#B#***	0.15	42.5	22.0	30.0	1350	202	25	10.5	13.5
K8M252D224KS#B#***	0.22	42.5	28.0	37.0	1350	297	25	14.5	10.0
K8M252D334KS#B#***	0.33	42.5	33.0	45.0	1350	445	25	18.0	7.8
K8M252D474KS#B#***	0.47	57.5	30.0	45.0	945	444	35	22.0	6.2
K8M252D564KS#B#***	0.56	57.5	30.0	45.0	945	530	35	22.5	6.2
K8M252D684KS#B#***	0.68	57.5	35.0	50.0	945	642	35	25.0	5.5
K8M252D754KS#B#***	0.75	57.5	35.0	50.0	945	709	35	25.5	5.1
K8M252D105KS#B#***	1.0	57.5	42.5	56.0	945	945	35	28.0	4.8
U _{NDc} 3000Vdc, Urms 750Vac, Us 4500V									
K8M302D473KS#B#***	0.047	42.5	24.5	27.5	1600	75	25	7.4	31.6
K8M302D473KS#S#***	0.047	42.5	15.0	26.0	1600	75	25	7.0	31.6
K8M302D683KS#B#***	0.068	42.5	24.5	27.5	1600	108	25	9.0	22.7
K8M302D683KS#S#***	0.068	42.5	17.0	28.0	1600	108	25	8.5	22.7
K8M302D104KS#B#***	0.10	42.5	33.5	35.5	1600	160	25	12.0	15.0
K8M302D104KS#S#***	0.10	42.5	22.0	30.0	1600	160	25	11.5	15.0
K8M302D154KS#B#***	0.15	42.5	33.5	35.5	1600	240	25	14.5	10.8
K8M302D154KS#S#***	0.15	42.5	28.0	37.0	1600	240	25	14.0	10.8
K8M302D224KS#B#***	0.22	42.5	33.0	45.0	1600	352	25	17.6	6.6
K8M302D224KS#S#***	0.22	42.5	30.0	45.0	1600	352	25	17.0	6.6
K8M302D334KS#B#***	0.33	57.5	30.0	45.0	870	288	35	21.0	7.5
K8M302D474KS#B#***	0.47	57.5	35.0	50.0	870	408	35	23.0	7.5
K8M302D564KS#B#***	0.56	57.5	35.0	50.0	870	487	35	23.0	7.4
K8M302D824KS#B#***	0.82	57.5	42.5	56.0	870	714	35	26.0	7.0

Remark: 1. # Lug Style; # P2; *** Internal code.

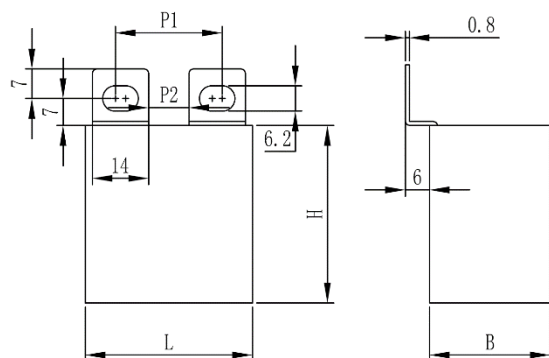
2. Customization for special specification and requirement is available.

■ Lug Dimensions for Plastic Case

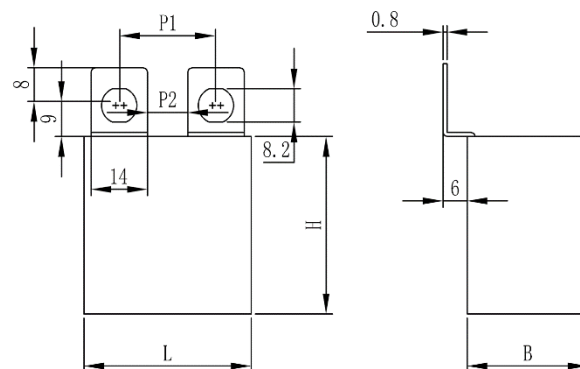
Unit: mm

These Lug dimensions suitable for style: B, K, U, C, UF, CF, R, G, T, TF, E and L.

Chose the correct styles according to your assemble way



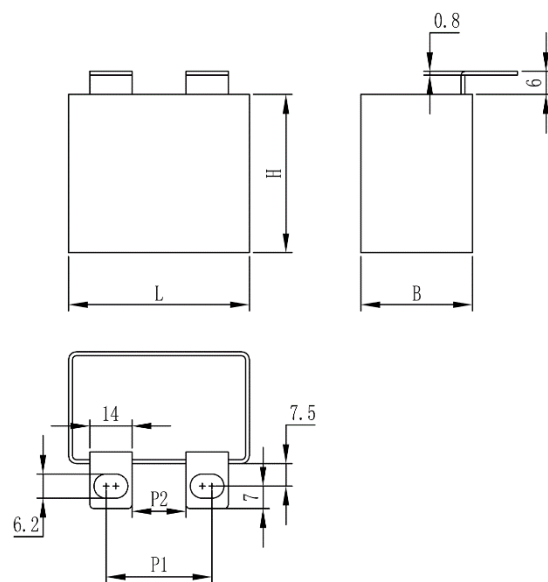
Style B



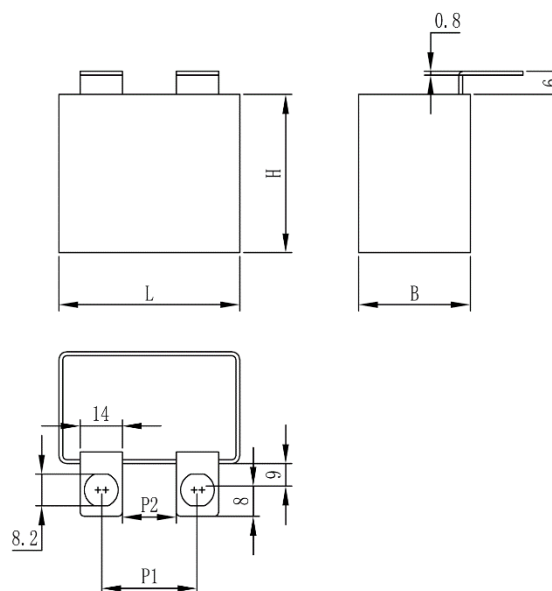
Style K

Fixing pitch and distance between lugs: Style B, Style K

Style	B					K				
L	P2	P1	P2	P1	Output	P2	P1	P2	P1	Output
42.5	11	23-28	8	20-25	M6	11	24-26	8	21-23	M8
57.5	11	23-28	24	36-41	M6	11	24-26	24	37-39	M8



Style U

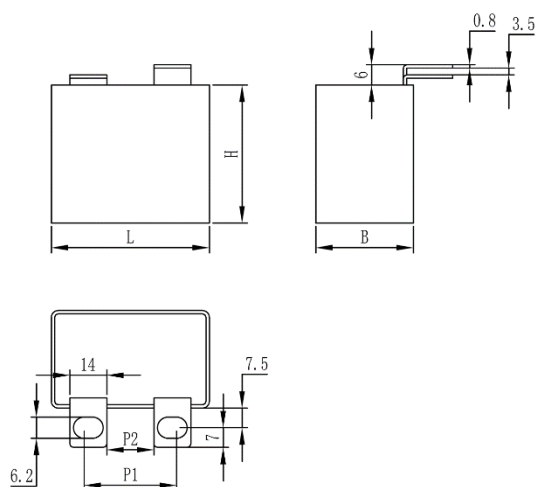


Style C

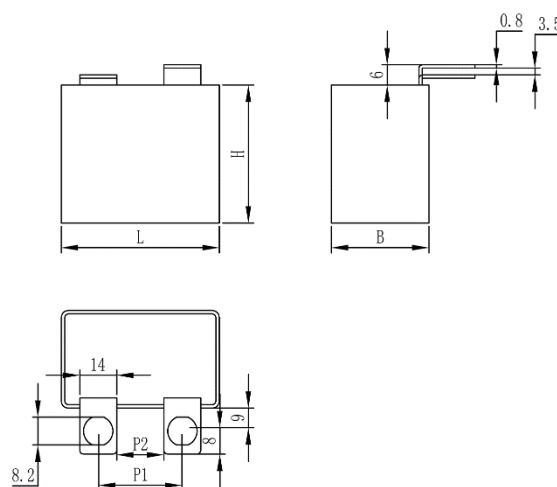
Style	U					C				
L	P2	P1	P2	P1	Output	P2	P1	P2	P1	Output
42.5	11	23-28	8	20-25	M6	11	24-26	8	21-23	M8
57.5	11	23-28	24	36-41	M6	11	24-26	24	37-39	M8

■ Lug Dimensions for Plastic Case

Unit: mm

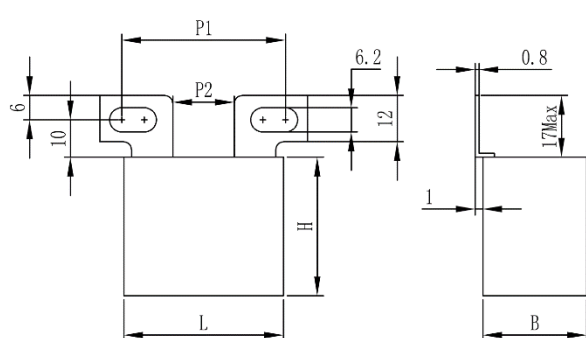


Style UF

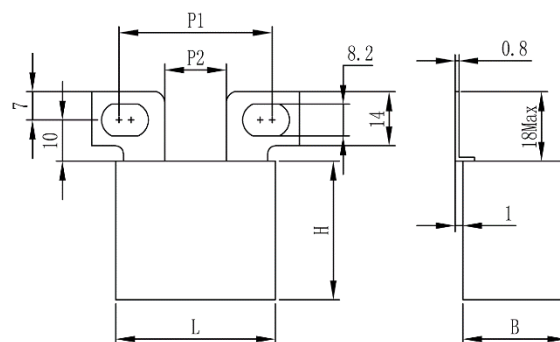


Style CF

Style	UF					CF				
L	P2	P1	P2	P1	Output	P2	P1	P2	P1	Output
42.5	11	23-28	8	20-25	M6	11	24-26	8	21-23	M8
57.5	11	23-28	24	36-41	M6	11	24-26	24	37-39	M8



Style R

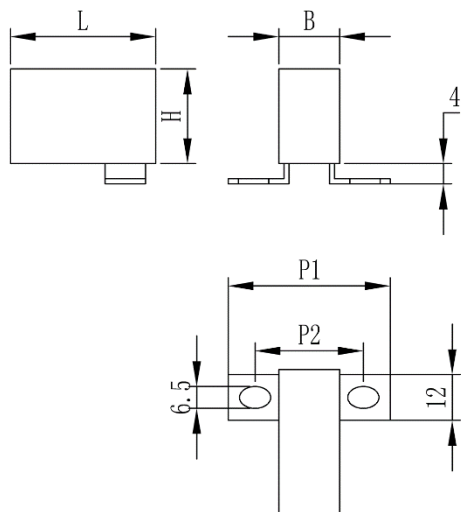


Style G

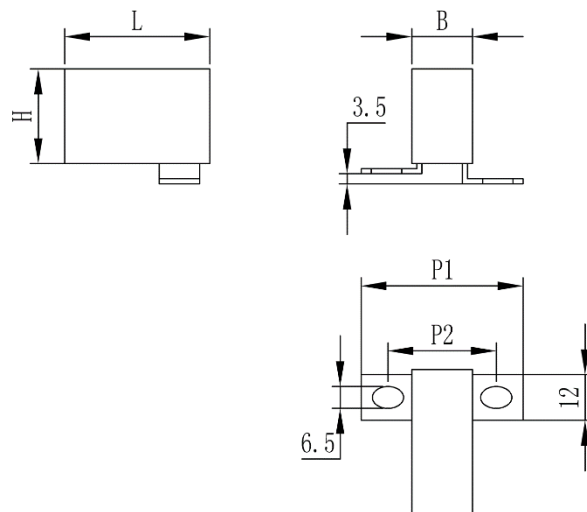
Style	R							G						
L	P2	P1	P2	P1	P2	P1	Output	P2	P1	P2	P1	P2	P1	Output
42.5	11	29-39	15	33-45			M6	8	33-42	15	40-49			M8
57.5	11	29-39	15	33-45	28	46-58	M6	15	40-49	24	49-58	28	53-62	M8

Lug Dimensions for Plastic Case

Unit: mm

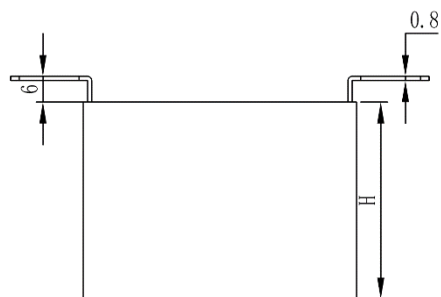


Style T

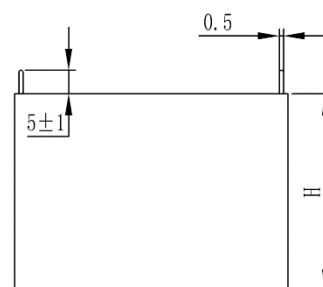


Style TF

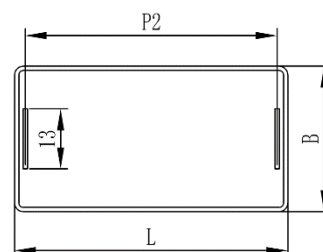
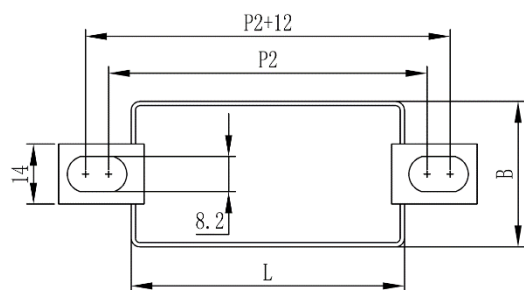
Style	T			TF		
B	P2	P1	Output	P2	P1	Output
15	30	43	M6	30	43	M6
17	32	45	M6	32	45	M6



Style E



Style L



Style	E	L
L	P2	P2
42.5	51	37.5
57.5	65	52.5