

### GENERAL TECHNICAL CHARACTERISTICS

Reference standards 参考标准	IEC 61071, IEC 60068
Dielectric 介质材料	Polypropylene film
Construction 封装结构	Extended metallized film with internal series connection
Case 外壳材料	Solvent resistant plastic case with resin sealing. Flame retardant execution (UL94V-0).
Leads 引出端	Tinned copper lugs for screw fixing or soldering on PCBs

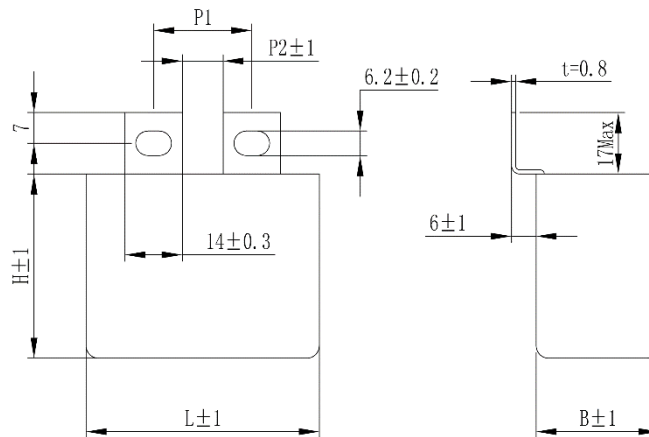
### ELECTRICAL CHARACTERISTICS

Operating temperature 工作温度范围	- 40 to + 105 °C
Capacitance range 容量范围	0.068 to 14μF
Rated voltage range 额定电压	700 to 3000 Vdc
Capacitance tolerance 容量偏差	± 5%, ± 10%
Dissipation factor 损耗角正切	Measured at 1000±20 Hz AND 25±5°C. When Cr≤1.0μF, 5×10 <sup>-4</sup> ; When Cr>1.0μF, 6×10 <sup>-4</sup>
Life expectancy 预期寿命	100,000 hours at U <sub>NDC</sub> and 70 °C (Hot-spot temperature)

### TEST METHODS AND PERFORMANCES

Dielectric strength 介质强度	1.5 × U <sub>NDC</sub> applied to 10s at 20±5 °C
Test voltage terminal to case 端壳耐压	3KVAC/50Hz for 10s
Insulation resistance(IR*C <sub>N</sub> ) 绝缘电阻	30000s but need not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5°C)

### OUTLINE DRAWING 外形图



### HOW TO ORDER:

<u>K8F</u>	<u>701D</u>	<u>155</u>	<u>K</u>	<u>S</u>	<u>B</u>	<u>B</u>	<u>11</u>	<u>***</u>
Series Code:	Voltage:	Capacitance:	Cap. Tol.:	Shape:	Lug Style:	Size:	Lug Spacing	Internal Code
K8F:	102D: 1000Vdc	105: 1.0μF	J: ± 5%, K: ± 10%	S: Square	B, K, U, C, UF, CF, R, G, T, TF, E, L (Refer to next page)	B: bigger size S: smaller size	P2 11mm	

### SPECIFICATIONS

Unit: mm (Max)

Capacitance ( $\mu$ F)	Dimension			Du/dt (V/ $\mu$ s)	Ipeak A	Irms max A	ESR (m $\Omega$ )
	L	B	H				
<b>Ur 700Vdc, Urms 380Vac, Upk 1000Vdc</b>							
1.5	42.5	24.5	27.5	132	198	15.0	3.6
1.5	42.5	17.0	28.0	132	198	14.5	3.6
2.0	42.5	33.5	35.5	132	264	16.0	3.1
2.0	42.5	22.0	30.0	132	264	15.5	3.1
3.0	42.5	33.5	35.5	132	396	20.0	2.6
3.0	42.5	28.0	37.0	132	396	19.5	2.6
3.3	42.5	33.5	35.5	132	436	21.0	2.5
3.3	42.5	28.0	37.0	132	436	20.5	2.5
4.0	42.5	33.5	35.5	132	528	23.0	2.2
4.0	42.5	28.0	37.0	132	528	22.0	2.2
4.7	42.5	33.0	45.0	132	620	26.0	1.9
4.7	42.5	30.0	45.0	132	620	25.5	1.9
5.0	42.5	33.0	45.0	132	660	26.0	1.9
5.0	42.5	30.0	45.0	132	660	15.5	1.9
5.6	42.5	33.0	45.0	132	739	27.0	1.8
6.8	57.5	30.0	45.0	90	612	27.0	2.3
8.2	57.5	35.0	50.0	90	738	32.0	2.1
10	57.5	35.0	50.0	90	900	32.0	1.9
14	57.5	42.5	56.0	90	1260	35.0	1.7
<b>Ur 850Vdc, Urms 450Vac, Upk 1200Vdc</b>							
1.2	42.5	24.5	27.5	200	240	15.0	3.3
1.2	42.5	17.0	28.0	200	240	14.5	3.3
1.5	42.5	22.0	30.0	200	300	18.0	3.0
2.0	42.5	33.5	35.5	200	400	21.0	2.7
2.0	42.5	28.0	37.0	200	400	20.5	2.7
2.2	42.5	33.5	35.5	200	440	23.0	2.3
2.2	42.5	28.0	37.0	200	440	22.5	2.3
2.5	42.5	33.5	35.5	200	500	24.0	2.1
2.5	42.5	28.0	37.0	200	500	24.0	2.1
2.7	42.5	33.5	35.5	200	540	24.0	2.0
2.7	42.5	28.0	37.0	200	540	23.5	2.0
3.0	42.5	33.5	35.5	200	600	26.0	1.9
<b>Ur 850Vdc, Urms 450Vac, Upk 1200Vdc</b>							
3.3	42.5	33.0	45.0	200	660	27.0	1.8
3.3	42.5	30.0	45.0	200	660	26.5	1.8
4.0	42.5	33.0	45.0	200	800	28.0	1.7
4.7	57.5	30.0	45.0	110	517	27.0	2.2
5.0	57.5	30.0	45.0	110	550	28.0	2.2
5.6	57.5	35.0	50.0	110	616	32.0	1.9
6.8	57.5	35.0	50.0	110	748	32.0	1.8
10	57.5	42.5	56.0	110	1100	42.0	1.2
<b>Ur 1000Vdc, Urms 480Vac, Upk 1400Vdc</b>							
1.0	42.5	24.5	27.5	225	225	15.0	3.3
1.0	42.5	22.0	30.0	225	225	14.5	3.3
1.5	42.5	28.0	37.0	225	338	20.0	2.7
2.0	42.5	33.5	35.5	225	450	23.0	2.1
2.0	42.5	28.0	37.0	225	450	22.5	2.1
2.5	42.5	33.0	45.0	225	563	27.0	1.8
2.5	42.5	30.0	45.0	225	563	26.5	1.8
3.3	57.5	30.0	45.0	130	429	26.0	2.4
4.7	57.5	35.0	50.0	130	611	32.0	1.9
6.8	57.5	42.5	56.0	130	884	41.0	1.3

Customization for special specification and requirement is available.

### SPECIFICATIONS

Unit: mm (Max)

Capacitance ( $\mu$ F)	Dimension			Du/dt (V/ $\mu$ s)	Ipeak A	Irms max A	ESR (m $\Omega$ )
	L	B	H				
<b>Ur 1200Vdc, Urms 500Vac, Upk 1600Vdc</b>							
0.68	42.5	24.5	27.5	225	153	13.0	4.1
0.68	42.5	22.0	30.0	225	153	12.5	4.1
1.0	42.5	28.0	37.0	225	225	17.0	3.2
1.5	42.5	33.5	35.5	225	338	21.0	2.6
1.5	42.5	28.0	37.0	225	338	20.5	2.6
2.0	42.5	33.0	45.0	225	450	26.0	2.0
2.0	42.5	30.0	45.0	225	450	25.5	2.0
2.2	42.5	33.0	45.0	225	495	27.0	1.9
2.2	42.5	30.0	45.0	225	495	26.5	1.9
2.5	57.5	30.0	45.0	150	375	26.0	2.4
2.5	42.5	33.0	45.0	225	563	28.0	1.8
3.0	57.5	35.0	50.0	150	450	30.0	2.1
3.3	57.5	35.0	50.0	150	495	31.0	2.0
3.5	57.5	35.0	50.0	150	525	32.0	1.9
5.6	57.5	42.5	56.0	150	840	38.0	1.5
<b>Ur 1500Vdc, Urms 575Vac, Upk 2000Vdc</b>							
0.33	42.5	24.5	27.5	225	74	12.0	5.6
0.33	42.5	17.0	28.0	225	74	11.5	5.6
0.47	42.5	24.5	27.5	225	106	13.0	4.5
0.47	42.5	18.0	31.5	225	106	12.5	4.5
0.68	42.5	33.5	35.5	225	153	18.0	3.8
0.68	42.5	28.0	37.0	225	153	17.5	3.8
1.0	42.5	33.5	35.5	225	225	21.0	2.6
1.2	42.5	33.0	45.0	225	270	25.0	2.1
1.2	42.5	30.0	45.0	225	270	24.5	2.1
1.5	57.5	30.0	45.0	150	225	23.0	3.1
2.0	57.5	35.0	50.0	150	300	27.0	2.3
2.2	57.5	35.0	50.0	150	330	28.0	2.5
3.5	57.5	42.5	56.0	150	525	35.0	1.6
<b>Ur 2000Vdc, Urms 630Vac, Upk 2400Vdc</b>							
0.22	42.5	24.5	27.5	410	90	11.0	6.4
0.22	42.5	15.0	26.0	410	90	10.5	6.4
0.33	42.5	24.5	27.5	410	135	12.0	5.7
0.33	42.5	22.0	30.0	410	135	11.5	5.7
<b>Ur 2000Vdc, Urms 630Vac, Upk 2400Vdc</b>							
0.47	42.5	33.5	35.5	410	193	17.0	3.8
0.47	42.5	28.0	37.0	410	193	16.5	3.8
0.56	42.5	33.5	35.5	410	230	18.0	3.4
0.56	42.5	28.0	37.0	410	230	17.5	3.4
0.68	42.5	33.0	45.0	410	279	22.0	3.0
0.68	42.5	30.0	45.0	410	279	21.5	3.0
0.82	42.5	33.0	45.0	410	336	22.0	2.7
0.82	42.5	30.0	45.0	410	336	21.5	2.7
1.0	57.5	30.0	45.0	225	225	22.0	3.5
1.2	57.5	30.0	45.0	225	270	23.0	3.3
1.5	57.5	35.0	50.0	225	338	26.0	2.8
2.5	57.5	42.5	56.0	225	563	38.0	1.5

Customization for special specification and requirement is available.

### SPECIFICATIONS

Unit: mm (Max)

Capacitance ( $\mu\text{F}$ )	Dimension			Du/dt ( $\text{V}/\mu\text{s}$ )	I <sub>peak</sub> A	I <sub>rms max</sub> A	ESR ( $\text{m}\Omega$ )
	L	B	H				
<b>Ur 2500Vdc, Urms 700Vac, Upk 3000Vdc</b>							
0.12	42.5	24.5	27.5	550	66	8.0	10.3
0.12	42.5	15.0	26.0	550	66	7.5	10.3
0.15	42.5	24.5	27.5	550	83	10.0	8.5
0.15	42.5	17.0	28.0	550	83	9.5	8.5
0.18	42.5	24.5	27.5	550	99	11.0	7.3
0.18	42.5	18.0	31.5	550	99	10.5	7.3
0.22	42.5	33.5	35.5	550	121	14.0	6.1
0.22	42.5	22.0	30.0	550	121	13.5	6.1
0.33	42.5	33.5	35.5	550	182	16.0	4.5
0.33	42.5	28.0	37.0	550	182	15.5	4.5
0.39	42.5	33.5	35.5	550	215	17.0	4.0
0.47	42.5	33.0	45.0	550	259	20.0	3.5
0.47	42.5	30.0	45.0	550	259	19.5	3.5
0.56	42.5	33.0	45.0	550	308	21.0	3.1
0.68	57.5	30.0	45.0	290	197	21.0	3.9
1.0	57.5	35.0	50.0	290	290	25.0	3.1
1.5	57.5	42.5	56.0	290	435	30.0	2.1
<b>Ur 3000Vdc, Urms 750Vac, Upk 3500Vdc</b>							
0.068	42.5	24.5	27.5	750	51	7.0	14.8
0.068	42.5	15.0	26.0	750	51	6.5	14.8
0.10	42.5	24.5	27.5	750	75	8.0	10.2
0.10	42.5	17.0	28.0	750	75	7.5	10.2
0.12	42.5	33.5	35.5	750	90	11.0	8.9
0.12	42.5	22.0	30.0	750	90	10.5	8.9
0.15	42.5	33.5	35.5	750	113	13.0	7.3
0.15	42.5	28.0	37.0	750	113	12.5	7.3
0.18	42.5	33.5	35.5	750	135	14.0	6.3
0.18	42.5	28.0	37.0	750	135	13.5	6.3
0.22	42.5	33.0	45.0	750	165	16.0	5.3
0.22	42.5	28.0	37.0	750	165	15.5	5.3
0.33	42.5	33.0	45.0	750	248	19.0	4.2
0.39	57.5	30.0	45.0	370	144	19.0	5.2
0.47	57.5	35.0	50.0	370	174	21.0	4.6
0.56	57.5	35.0	50.0	370	207	22.0	4.1
1.0	57.5	42.5	56.0	370	370	28.0	3.0

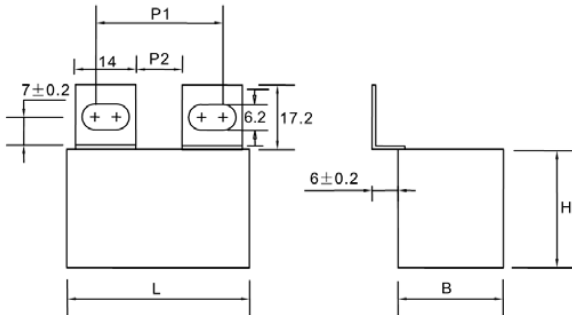
Customization for special specification and requirement is available.

### Lug Dimensions for Plastic Case

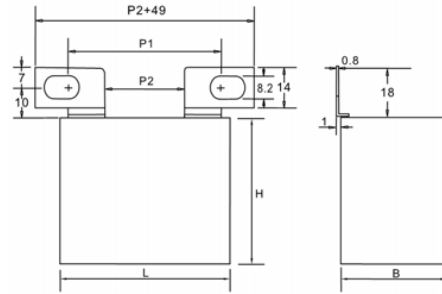
These Lug dimensions suitable for style: B, G, U, UF, E, T and TF

Chose the correct styles according to your assembly way

The dimensions are suitable for STM and STF series.



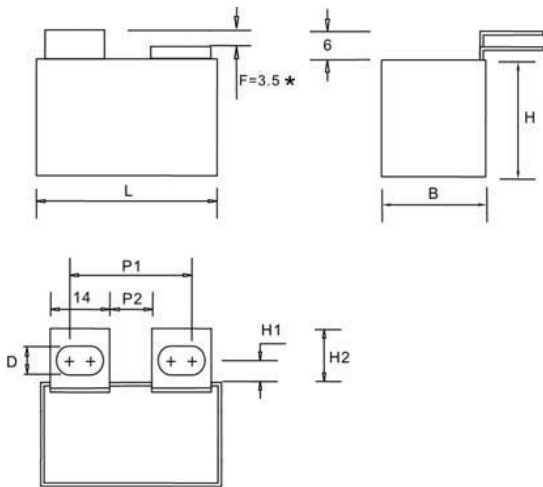
Style B



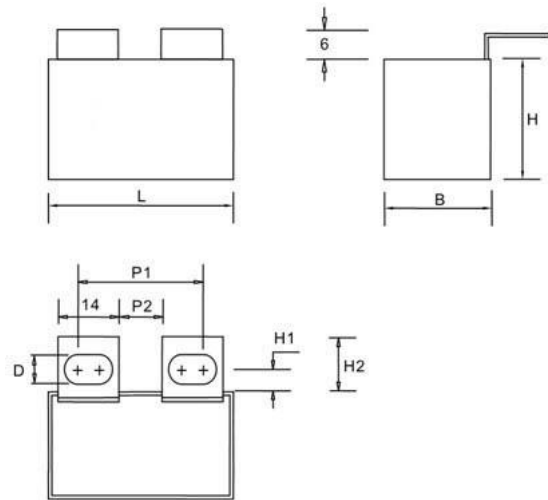
Style G

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

Style	B				G							
	L	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	
42.5		11	23-28	8	20-25							
57.5		11	23-28	24	37-42	17	42-51	24	49-58	28	53-62	



Style UF, CF



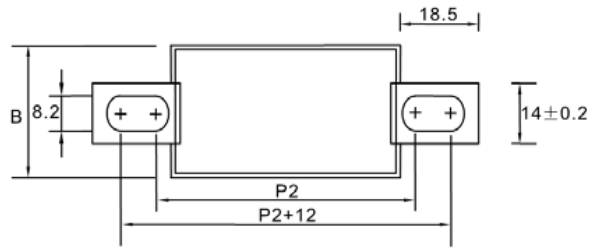
Style U,C

Fixing pitch and distance between lugs: Style C, U, CF, UF

Style	C CF							U UF							
	L	P2	P1	P2	P1	D	H1	H2	P2	P1	P2	P1	D	H1	H2
42.5		11	24-26	8	21-23	82	9.5	17.5	11	23-28	8	20-25	6.2	7.5	14.5
57.5		11	24-26	24	37-39				11	23-28	24	37-42			

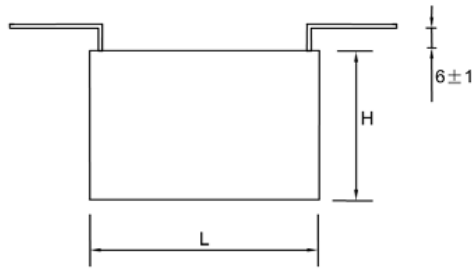
F: Maximum values 3.5mm. Should be adjusted according to the dimensions

### Lug Dimensions for Plastic Case

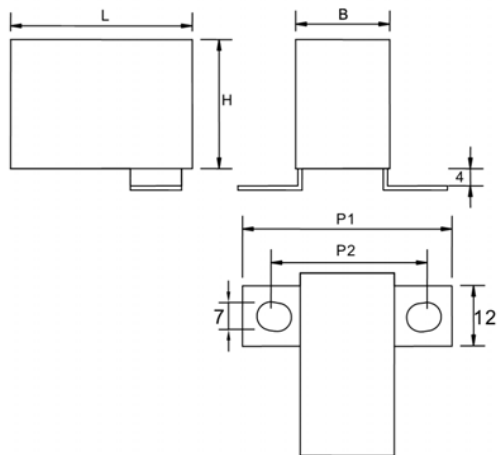


Fixing pitch and distance between lugs: Style E

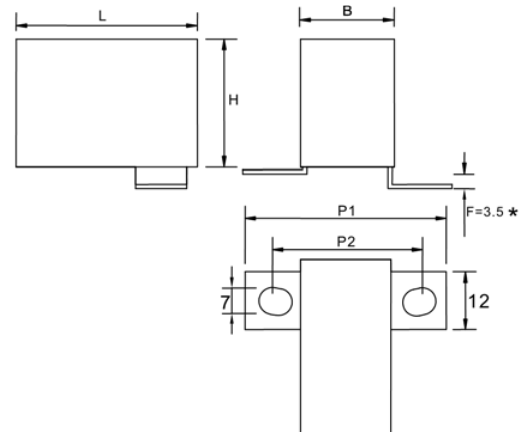
Style	E
L	P2
42.5	51
57.5	66



Style E



Style T



Style TF

Fixing pitch and distance between lugs: Style T, TF

Style	T TF				
	B	P1	P2	F	F
B	15	17	18	22	28
P1	43	45	46	50	56
P2	30	32	33	37	43

F: Maximum values 3.5mm. Should be adjusted according to bus dimensions.