

GENERAL TECHNICAL CHARACTERISTICS

Dielectric : Polypropylene film
 Construction : Extended double side metallized carrier film
 with internal series connection and metallized film
 Case : Solvent resistant plastic case with resin sealing .
 Flame retardant execution (UL94V-0).
 Leads: Tinned copper lugs for screw fixing
 or soldering on PCBS

ELECTRICAL CHARACTERISTICS

Working temperature : - 40 to + 85 °C
 Capacitance : 0.047 to 10μF
 Rated Voltage : 700 to 3000 Vdc
 Tolerance : ± 5%, ± 10%
 Dissipation factor: Measured at 1000±20 Hz AND 25±5°C.
 When $C \leq 1.0\mu F$, 4×10^{-4} ;
 When $C > 1.0\mu F$, 6×10^{-4}

TEST METHODS AND PERFORMANCES

Dielectric strength: 2Ur (DC) applied for 10s at 25±5°C
 (1 minute for type test)
 Insulation resistance : 3000s but need not exceed 30GΩ
 (typical value), after 1 minute of
 electrification at 100Vdc (25±5°C)

**Electrical specifications, ordering codes**

Part Number	Cap (μF)	Dimenton(mm)			du/dt (v/μs)	Ipeak A	Irms max A	ESR (mΩ)
		L	B	H				
Ur 700Vdc, Urms 380Vac, Upk 1000Vdc								
STM-700-1.0-*S#	1.0	42.5	17.0	28.0	325	325	15.0	3.2
STM-700-1.2-*P#	1.2	42.5	24.5	27.5	325	390	16.0	3.1
STM-700-1.2-*S#	1.2	42.5	18.0	31.5	325	390	15.5	3.1
STM-700-1.5-*S#	1.5	42.5	22.0	30.0	325	487	18.0	2.8
STM-700-2.0-*P#	2.0	42.5	33.5	35.5	325	650	22.0	2.5
STM-700-2.0-*S#	2.0	42.5	28.0	37.0	325	650	21.5	2.5
STM-700-2.2-*P#	2.2	42.5	33.5	35.5	325	715	22.5	2.4
STM-700-2.2-*S#	2.2	42.5	28.0	37.0	325	715	22.0	2.4
STM-700-2.5-*P#	2.5	42.5	33.5	35.5	325	812	23.0	2.2
STM-700-2.5-*S#	2.5	42.5	28.0	37.0	325	812	22.5	2.2
STM-700-3.0-*P#	3.0	42.5	33.0	45.0	325	975	26.0	2.1
STM-700-3.0-*S#	3.0	42.5	30.0	45.0	325	975	25.5	2.1
STM-700-3.3-*P#	3.3	42.5	33.0	45.0	325	1072	26.5	2.1
STM-700-3.3-*S#	3.3	42.5	30.0	45.0	325	1072	26.0	2.1
STM-700-3.5-*P#	3.5	42.5	33.0	45.0	325	1134	27.0	2.0
STM-700-3.5-*S#	3.5	42.5	30.0	45.0	325	1134	26.5	2.0
STM-700-4.0-*P#	4.0	57.5	30.0	45.0	220	880	27.0	2.3
STM-700-4.0-*S#	4.0	42.5	33.0	45.0	325	1300	32.0	1.8
STM-700-4.7-*P#	4.7	57.5	35.0	50.0	220	1034	31.0	2.1
STM-700-4.7-*S#	4.7	57.5	30.0	45.0	220	1034	30.5	2.1
STM-700-5.0-*P#	5.0	57.5	35.0	50.0	220	1100	31.0	2.1
STM-700-5.0-*S#	5.0	57.5	30.0	45.0	220	1100	30.5	2.1
STM-700-5.6-*P#	5.6	57.5	35.0	50.0	220	1232	32.0	2.0
STM-700-6.8-*S#	6.8	57.5	35.0	50.0	220	1496	32.0	2.0
STM-700-10-*S#	10	57.5	42.5	56.0	220	2200	33.0	1.3

Electrical specifications, ordering codes

Part Number	Cap (μF)	Dimenton(mm)			du/dt (v/μs)	Ipeak A	Irms max A	ESR (mΩ)
		L	B	(A)				
Ur 850Vdc, Urms 450Vac, Upk 1200Vdc								
STM-850-0.82-*P#	0.82	42.5	24.5	27.5	400	328	15.5	3.1
STM-850-0.82-*S#	0.82	42.5	18.0	31.5	400	328	15.0	3.1
STM-850-1.0-*P#	1.0	42.5	24.5	27.5	400	400	17.5	2.7
STM-850-1.0-*S#	1.0	42.5	22.0	30.0	400	400	17.0	2.7
STM-850-1.5-*P#	1.5	42.5	33.5	35.5	400	600	23.0	2.2
STM-850-1.5-*S#	1.5	42.5	28.0	37.0	400	600	22.5	2.2
STM-850-2.0-*P#	2.0	42.5	33.5	35.5	400	800	23.5	2.2
STM-850-2.2-*P#	2.2	42.5	33.5	35.5	400	880	26.5	2.0
STM-850-2.5-*P#	2.5	42.5	33.0	45.0	400	1000	27.0	2.0
STM-850-2.5-*S#	2.5	42.5	30.0	45.0	400	1000	26.5	2.0
STM-850-3.0-*P#	3.0	57.5	30.0	45.0	280	840	28.0	1.9
STM-850-3.3-*P#	3.3	57.5	30.0	45.0	280	924	28.5	2.2
STM-850-4.0-*P#	4.0	57.5	35.0	50.0	280	1120	29.5	2.1
STM-850-4.7-*P#	4.7	57.5	35.0	50.0	280	1316	32.0	1.9
STM-850-6.8-*S#	6.8	57.5	42.5	56.0	280	1904	33.0	1.5
Ur 1000Vdc, Urms 480Vac, Upk 1400Vdc								
STM-1000-0.68-*P#	0.68	42.5	24.5	27.5	500	340	15.0	3.3
STM-1000-0.68-*S#	0.68	42.5	18.0	31.5	500	340	14.5	3.3
STM-1000-0.75-*P#	0.75	42.5	24.5	27.5	500	375	15.5	3.2
STM-1000-0.75-*S#	0.75	42.5	22.0	30.0	500	375	15.0	3.2
STM-1000-1.0-*S#	1.0	42.5	28.0	37.0	500	500	17.0	2.9
STM-1000-1.2-*P#	1.2	42.5	33.5	35.5	500	600	22.0	2.5
STM-1000-1.2-*S#	1.2	42.5	28.0	37.0	500	600	21.5	2.5
STM-1000-1.5-*P#	1.5	42.5	33.5	35.5	500	750	23.5	2.2
STM-1000-1.75-*P#	1.75	42.5	33.0	45.0	500	875	23.5	2.1
STM-1000-1.75-*S#	1.75	42.5	30.0	45.0	500	875	23.0	2.1
STM-1000-2.0-*P#	2.0	42.5	33.0	45.0	500	1000	26.5	2.0
STM-1000-2.2-*P#	2.2	57.5	30.0	45.0	350	770	26.5	2.5
STM-1000-2.5-*S#	2.5	57.5	30.0	45.0	350	875	28.0	2.1
STM-1000-3.0-*P#	3.0	57.5	35.0	50.0	350	1050	31.0	2.1
STM-1000-3.3-*P#	3.3	57.5	35.0	50.0	350	1155	31.0	2.0
STM-1000-5.0-*S#	5.0	57.5	42.5	56.0	350	1750	33.0	1.6
Ur 1200Vdc, Urms 500Vac, Upk 1600Vdc								
STM-1200-0.22-*P#	0.22	42.5	24.5	27.5	650	143	11.5	5.2
STM-1200-0.22-*S#	0.22	42.5	15.0	26.0	650	143	11.0	5.2
STM-1200-0.33-*P#	0.33	42.5	24.5	27.5	650	210	12.0	5.1
STM-1200-0.33-*S#	0.33	42.5	15.0	26.0	650	210	11.5	5.1
STM-1200-0.39-*P#	0.39	42.5	24.5	27.5	650	254	13.0	4.6
STM-1200-0.39-*S#	0.39	42.5	17.0	28.0	650	254	12.5	4.6
STM-1200-0.47-*P#	0.47	42.5	24.5	27.5	650	308	14.0	4.1
STM-1200-0.47-*S#	0.47	42.5	17.0	28.0	650	308	13.5	4.1
STM-1200-0.56-*P#	0.56	42.5	24.5	27.5	650	364	14.5	3.7
STM-1200-0.56-*S#	0.56	42.5	18.0	31.5	650	364	14.0	3.7
STM-1200-0.68-*P#	0.68	42.5	33.5	35.5	650	442	19.0	3.3
STM-1200-0.68-*S#	0.68	42.5	22.0	30.0	650	442	18.5	3.3
STM-1200-0.82-*P#	0.82	42.5	33.5	35.5	650	533	20.0	3.0
STM-1200-0.82-*S#	0.82	42.5	28.0	37.0	650	533	19.5	3.0
STM-1200-1.0-*P#	1.0	42.5	33.5	35.5	650	650	20.5	2.7
STM-1200-1.0-*S#	1.0	42.5	28.0	37.0	650	650	20.0	2.7
STM-1200-1.2-*P#	1.2	42.5	33.0	45.0	650	780	23.5	2.4
STM-1200-1.2-*S#	1.2	42.5	30.0	45.0	650	780	23.0	2.4
STM-1200-1.5-*P#	1.5	42.5	33.0	45.0	650	975	25.0	2.1
STM-1200-1.5-*S#	1.5	42.5	30.0	45.0	650	975	24.5	2.1
STM-1200-2.0-*P#	2.0	57.5	30.0	45.0	455	910	27.0	1.7

Electrical specifications, ordering codes

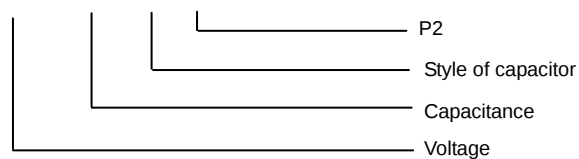
Part Number	Cap (μ F)	Dimenton(mm)			du/dt (V/ μ s)	Ipeak A	Irms max A	ESR (m Ω)
		L	B	H				
STM-1200-2.2-*P#	2.2	57.5	35.0	50.0	455	1001	30.0	2.4
STM-1200-2.2-*S#	2.2	57.5	30.0	50.0	455	1001	29.5	2.4
STM-1200-2.5-*P#	2.5	57.5	35.0	50.0	455	1138	31.0	2.3
STM-1200-2.5-*S#	2.5	57.5	30.0	50.0	455	1138	30.5	2.3
STM-1200-3.0-*P#	3.0	57.5	35.0	50.0	455	1365	32.0	2.1
STM-1200-4.5-*S#	4.5	57.5	42.5	56.0	455	2047	33.0	1.7
Ur 1500Vdc, Urms 575Vac, Upk 2000Vdc								
STM-1500-0.33-*P#	0.33	42.5	24.5	27.5	800	264	13.5	4.6
STM-1500-0.33-*S#	0.33	42.5	18.0	31.5	800	264	13.0	4.6
STM-1500-0.39-*P#	0.39	42.5	24.5	27.5	800	312	14.0	4.3
STM-1500-0.39-*S#	0.39	42.5	22.0	30.0	800	312	13.5	4.3
STM-1500-0.47-*P#	0.47	42.5	33.5	35.5	800	376	18.0	3.7
STM-1500-0.47-*S#	0.47	42.5	28.0	37.0	800	376	17.5	3.7
STM-1500-0.68-*P#	0.68	42.5	33.5	35.5	800	544	19.5	3.1
STM-1500-0.68-*S#	0.68	42.5	28.0	37.0	800	544	19.0	3.1
STM-1500-0.75-*P#	0.75	42.5	33.5	35.5	800	600	20.5	2.8
STM-1500-1.0-*P#	1.0	42.5	33.0	45.0	800	800	23.0	2.5
STM-1500-1.0-*S#	1.0	42.5	30.0	45.0	800	800	22.5	2.5
STM-1500-1.2-*P#	1.2	57.5	30.0	45.0	560	672	25.0	2.8
STM-1500-1.5-*P#	1.5	57.5	35.0	50.0	560	840	28.0	2.5
STM-1500-1.8-*P#	1.8	57.5	35.0	50.0	560	1008	29.5	2.3
STM-1500-2.5-*S#	2.5	57.5	42.5	56.0	560	1400	31.0	1.8
Ur 1700Vdc, Urms 575Vac, Upk 2000Vdc								
STM-1700-0.22-*P#	0.22	42.5	24.5	27.5	880	194	13.2	5.3
STM-1700-0.22-*S#	0.22	42.5	17.0	28.0	880	194	13.0	5.3
STM-1700-0.33-*P#	0.33	42.5	24.5	27.5	880	290	14.0	5.0
STM-1700-0.33-*S#	0.33	42.5	22.0	30.0	880	290	13.5	5.0
STM-1700-0.47-*P#	0.47	42.5	33.5	35.5	880	413	19.0	3.8
STM-1700-0.47-*S#	0.47	42.5	28.0	37.0	880	413	18.5	3.8
STM-1700-0.56-*P#	0.56	42.5	33.5	35.5	880	492	19.5	3.1
STM-1700-0.56-*S#	0.56	42.5	28.0	37.0	880	492	19.0	3.1
STM-1700-0.68-*P#	0.68	42.5	33.5	35.5	880	598	20.0	2.9
STM-1700-0.82-*P#	0.82	42.5	33.0	45.0	880	721	22.1	2.5
STM-1700-0.82-*S#	0.82	42.5	30.0	45.0	880	721	19.5	2.5
STM-1700-1.0-*P#	1.0	57.5	30.0	45.0	610	610	23.5	2.7
STM-1700-1.2-*P#	1.2	57.5	30.0	45.0	610	732	26.2	2.6
STM-1700-1.5-*P#	1.5	57.5	35.0	50.0	610	915	28.5	2.4
STM-1700-2.2-*S#	2.2	57.5	42.5	56.0	610	1342	30.0	1.8
Ur 2000Vdc, Urms 630Vac, Upk 2400Vdc								
STM-2000-0.10-*P#	0.10	42.5	24.5	27.5	1000	100	8.0	13.0
STM-2000-0.10-*S#	0.10	42.5	15.0	26.0	1000	100	8.5	13.0
STM-2000-0.15-*P#	0.15	42.5	24.5	27.5	1000	150	10.5	7.5
STM-2000-0.15-*S#	0.15	42.5	15.0	26.0	1000	150	10.0	7.5
STM-2000-0.22-*P#	0.22	42.5	24.5	27.5	1000	220	12.0	5.1
STM-2000-0.22-*S#	0.22	42.5	22.0	30.0	1000	220	11.5	5.1
STM-2000-0.33-*P#	0.33	42.5	33.5	35.5	1000	330	16.5	4.1
STM-2000-0.33-*S#	0.33	42.5	28.0	37.0	1000	330	16.0	4.1
STM-2000-0.39-*P#	0.39	42.5	33.5	35.5	1000	390	17.5	3.6
STM-2000-0.39-*S#	0.39	42.5	28.0	37.0	1000	390	17.0	3.6
STM-2000-0.47-*P#	0.47	42.5	33.0	45.0	1000	470	20.5	3.2
STM-2000-0.47-*S#	0.47	42.5	28.0	37.0	1000	470	20.0	3.2
STM-2000-0.56-*P#	0.56	42.5	33.0	45.0	1000	560	21.5	3.0
STM-2000-0.68-*P#	0.68	57.5	30.0	45.0	700	476	22.5	3.5
STM-2000-0.82-*P#	0.82	57.5	30.0	45.0	700	574	24.0	3.1
STM-2000-1.0-*P#	1.0	57.5	35.0	50.0	700	700	27.0	2.8

Electrical specifications, ordering codes

Part Number	Cap (μ F)	Dimention(mm)			du/dt (V/ μ s)	Ipeak A	Irms max A	ESR (m Ω)
		L	B	H				
STM-2000-1.2-*P#	1.2	57.5	35.0	50.0	700	840	29.0	2.4
STM-2000-1.8-*S#	1.8	57.5	42.5	56.0	700	1260	31.0	2.0
Ur 2500Vdc, Urms 700Vac, Upk 3000Vdc								
STM-2500-0.10-*P#	0.10	42.5	24.5	27.5	1350	135	9.0	11.2
STM-2500-0.10-*S#	0.10	42.5	15.0	26.0	1350	135	8.5	11.2
STM-2500-0.15-*P#	0.15	42.5	24.5	27.5	1350	202	11.0	7.2
STM-2500-0.15-*S#	0.15	42.5	18.0	31.5	1350	202	10.5	7.2
STM-2500-0.22-*P#	0.22	42.5	33.5	35.5	1350	297	15.0	5.2
STM-2500-0.22-*S#	0.22	42.5	28.0	37.0	1350	297	14.5	5.2
STM-2500-0.33-*P#	0.33	42.5	33.5	35.5	1350	445	18.0	3.8
STM-2500-0.47-*P#	0.47	42.5	33.0	45.0	1350	634	22.0	3.0
STM-2500-0.56-*P#	0.56	57.5	30.0	45.0	945	530	22.5	3.5
STM-2500-0.68-*P#	0.68	57.5	35.0	50.0	945	642	25.0	3.2
STM-2500-0.82-*P#	0.82	57.5	35.0	50.0	945	774	26.0	2.9
STM-2500-1.2-*S#	1.2	57.5	42.5	56.0	945	1134	28.0	2.4
Ur 3000Vdc, Urms 750Vac, Upk 3500Vdc								
STM-3000-0.047-*P#	0.047	42.5	24.5	27.5	1600	75	7.4	17.0
STM-3000-0.047-*S#	0.047	42.5	15.0	26.0	1600	75	7.0	17.0
STM-3000-0.068-*P#	0.068	42.5	24.5	27.5	1600	108	9.0	12.0
STM-3000-0.068-*S#	0.068	42.5	15.0	26.0	1600	108	8.5	12.0
STM-3000-0.10-*P#	0.10	42.5	33.5	35.5	1600	160	12.0	8.5
STM-3000-0.10-*S#	0.10	42.5	18.0	31.5	1600	160	11.5	8.5
STM-3000-0.15-*P#	0.15	42.5	33.5	35.5	1600	240	14.5	6.1
STM-3000-0.15-*S#	0.15	42.5	28.0	37.0	1600	240	14.0	6.1
STM-3000-0.22-*P#	0.22	42.5	33.0	45.0	1600	352	17.6	1.3
STM-3000-0.22-*S#	0.22	42.5	30.0	45.0	1600	352	17.0	1.3
STM-3000-0.33-*P#	0.33	57.5	30.0	45.0	870	288	21.0	4.2
STM-3000-0.47-*P#	0.47	57.5	35.0	50.0	870	408	23.0	3.9
STM-3000-0.56-*S#	0.56	57.5	35.0	50.0	870	487	23.0	3.8
STM-3000-0.82-*S#	0.82	57.5	42.5	56.0	870	714	26.0	3.0

How to Order:

STM - 1200 - 0.47 - * P#

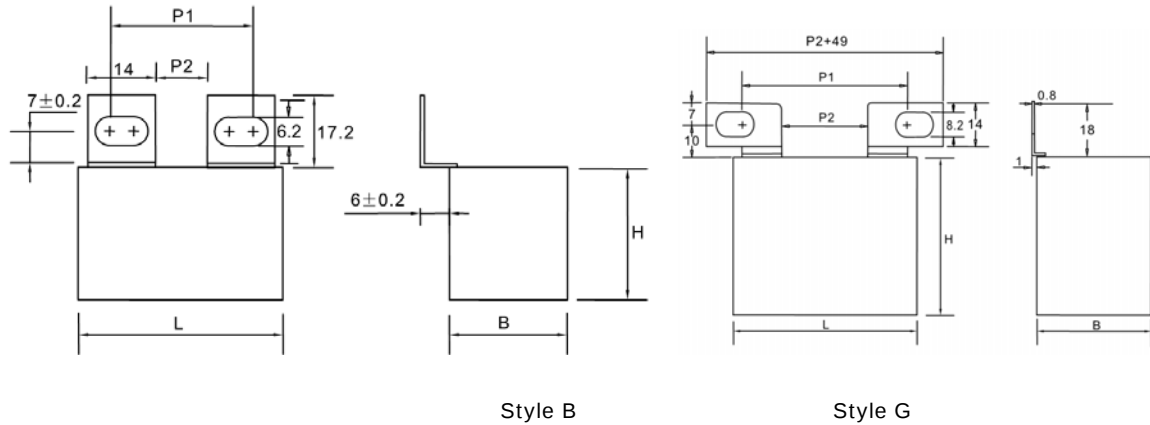


Lug Dimensions for Plastic Case

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

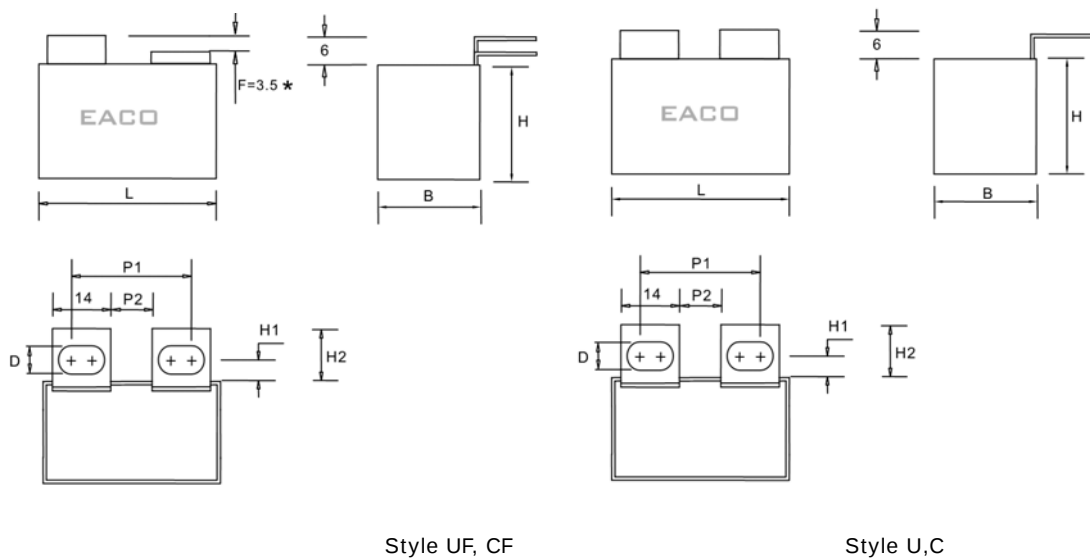
Chose the correct styles according to your assemble way

The dimensions suitable for STM and STF series.



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

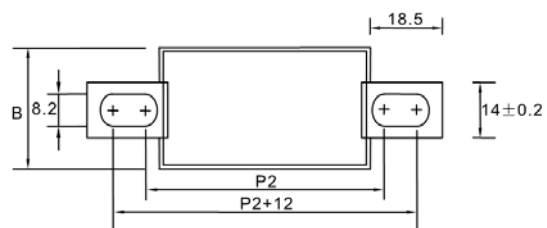
Style	B				G					
L	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1
42.5	11	23-28	8	20-25						
57.5	11	23-28	24	37-42	17	42-51	24	49-58	28	53-62



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

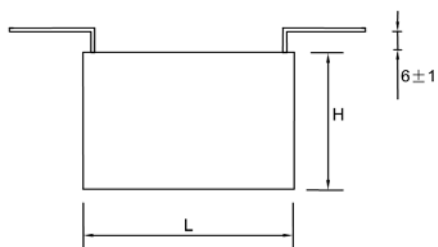
Style	P2	C CF						U UF						
L	P2	P1	P2	P1	D	H1	H2	P2	P1	P2	P1	D	H1	H2
42.5	11	24-26	8	21-23	8.2	9.5	17.5	11	23-28	8	20-25	6.2	7.5	14.5
57.5	11	24-26	24	37-39				11	23-28	24	37-42			

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

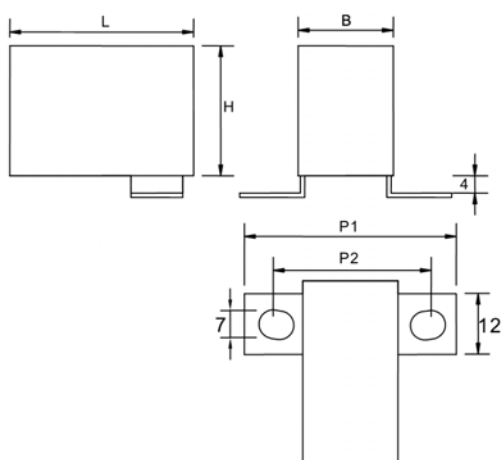


Fixing pitch and distance between lugs: Style E

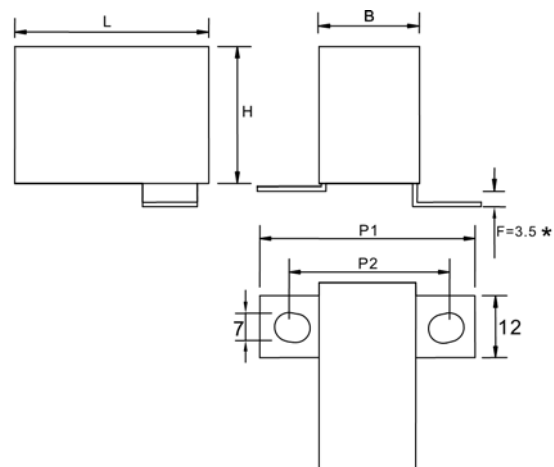
Style	E
L	P2
42.5	51
57.5	66



Style E



Style T



Style TF

Fixing pitch and distance between lugs: Style T,TF

Style	T TF				
B	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