MHBS
Boxed Metallized Polypropylene Film

FEATURES	Small size - High voltage – High Capacitance
APPLICATIONS	UPS – DC link – AC/DC motor controls – Power inverters

Operating Temperature Range			**-40°C to +100°C** Above +85°C applied voltage must be de-rated by 1.5%/°C							
Capacitance Tolerance			±10% at 1 kHz, 25°C ±5% optional							
Surge Voltage	**VDC**	**Code**	**A35**	**A40**	**A45**	**A50**	**A55**	**A60**	**A70**	
		85°C	**575**	**700**	**800**	**900**	**1000**	**1100**	**1275**	
		70°C	630	770	880	1000	1100	1200	1400	
	Repetitive SVDC	**85°C**	660	805	920	1035	1150	1265	1465	
		70°C	720	885	1010	1150	1265	1380	1610	
	Non-repetitive SVDC	**85°C**	750	910	1040	1170	1300	1430	1655	
		70°C	815	1000	1140	1300	1430	1560	1820	
			Repetitive SVDC: Maximum repetitive voltage for 1 hour Max/Day							
AC Voltage	**Code**		**A35**	**A40**	**A45**	**A50**	**A55**	**A60**	**A70**	
	VDC		**575**	**700**	**800**	**900**	**1000**	**1100**	**1275**	
	VAC	**85°C**	240	285	315	350	400	420	440	
		70°C	250	300	330	370	420	440	460	

Dissipation Factor (MAX) Tan δ (%) at 1 kHz and 25°C	**C≤ 4µF**	**4µF<C≤12µF**	**12µF<C≤20µF**	**20µF<C≤40µF**	**40µF<C≤75µF**	**C>75µF**
	.06	.08	.11	.14	.17	.2

ESR (mΩ)	**Lead spacing (mm)**	**Frequency range**	**ESR Value**
	27.5	10kHz - 60kHz	See standard part listing
	37.5	10kHz - 45 kHz	See standard part listing
	52.5	10kHz - 30 kHz	See standard part listing

RMS Current	No RMS current is to be applied at temperatures > +95°C	
Ripple Current	See standard part listing, No ripple current is to be applied when the ambient temperature is≥+95°C	
Insulation Resistance	3000 MΩxuF (10000 MΩxuF typical) "Not to exceed 3GΩ" After 1 minute of 100VDC applied between the terminals at 25°C	
Self Inductance	<1 nano-Henry per mm of lead spacing and lead length	
Long Term Stability	Capacitance variation <1% MAX after 2 years	
Dielectric Strength	**Terminal to Terminal**	**Terminal to case**
	150% of VDC or 150% of VAC applied for 10 Seconds and 25°C	3KVAC at 50/60 Hz applied between the terminals and case for 60 Seconds and 25°C

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Life Expectancy	≥60000 with VAC, ≥200000 With WVDC applied at +70°C ≥30000 with VAC, ≥100000 With WVDC applied at +85°C ≥10000 with 0.8xVAC, ≥30000 With 0.8xWVDC applied at +100°C		
Failure Quota	300/billion component hours		
Damp Heat Test	**Test Condition**	**Performance requirements**	
	Temperature= +40°C ±2°C	**Max Capacitance change**	≤ ±3%% of initially measured valued
	Relative Humidity=93 ±2%	**DF Change**	≤ 200% of initially specified valued
	Test length= 56 days	**Insulation resistance**	≥ 50% of minimum specified value
Resistance to soldering Heat **Solder bath temperature: +260°C +/- 5°C** **Exposure time: 10 seconds +/- 1 second**	**Max Capacitance change**	≤1% of initially measured value	
	DF Change	≤ .1% at 1kHz	
	Insulation resistance	≥50% of minimum specified value	
Construction	Metallized Polypropylene film		
Electrodes	Vacuum deposited Metal layers		
Coating	Flame retardant Solvent resistant plastic case with epoxy end fill		
Lead Terminations	Lead free tinned copper leads		

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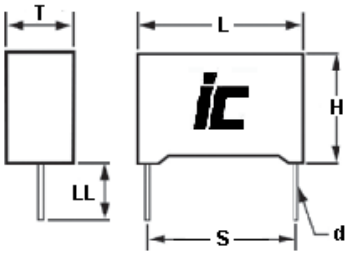
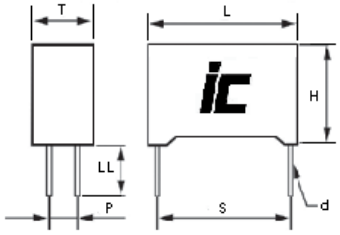
Lead styles



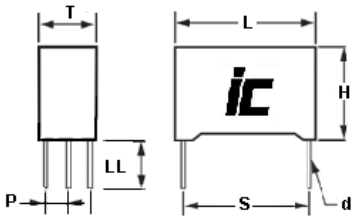
2 leads

Length (L)	32	41.5	42.5	57.5
Lead spacing (S)	27.5	37.5	37.5	52.5
Lead Length (LL)	5mm +/-1 mm			



4 leads

Length (L)	32	41.5	42.5	57.5
Lead spacing (S)	27.5	37.5	37.5	52.5
Lead Spacing (P)	See part listing			
Lead Length (LL)	5mm +/-1 mm			



6 leads

Length (L)	32	41.5	42.5	57.5
Lead spacing (S)	27.5	37.5	37.5	52.5
Lead Spacing (P)	See part listing			
Lead Length (LL)	5mm +/-1 mm			

Dimensions in mm

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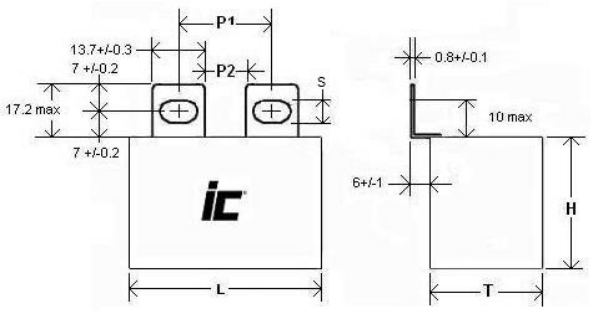
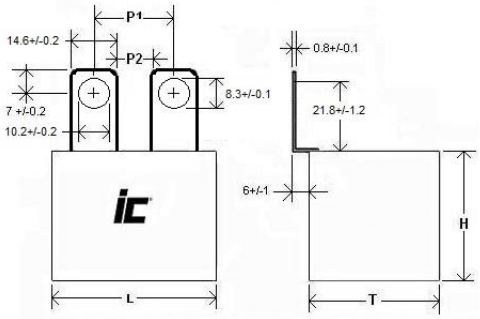
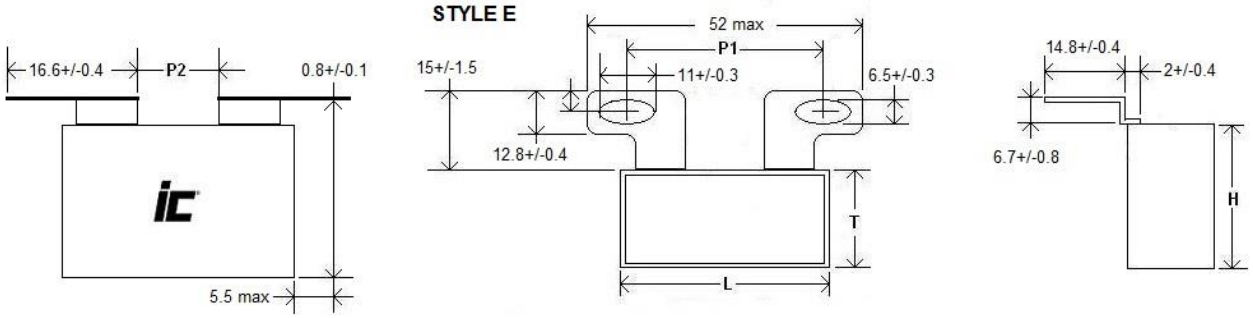
STYLE S, SM8, T ,TM8



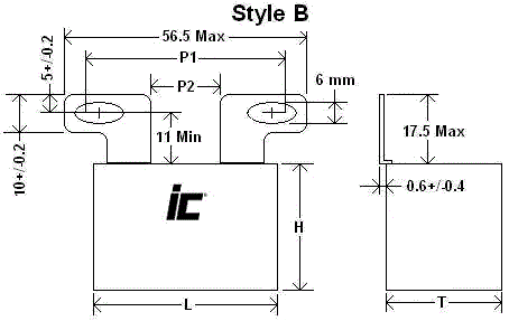
STYLE L



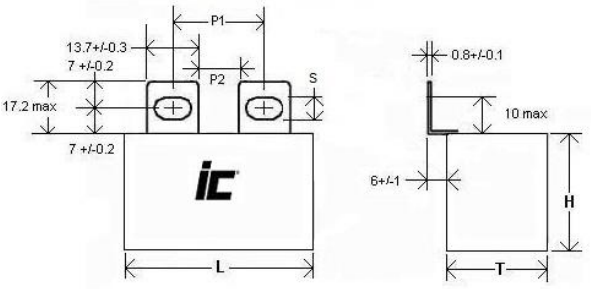
STYLE E



Style B



STYLE F, FM8, G, GM8



Fixing pitch and distance between lugs (mm)				
Lugs	L	P1	P2	S
S,V,F	42 - 42.5	23 - 28	11	6
	57.5	37 - 42	24	6
SM8,VM8, FM8	42 - 42.5	25 – 26	11	8
	57.5	39 - 40	24	8
T,W,G	42 - 42.5	20 – 25	8	6
	57.5	34 – 39	21	6
TM8,WM8,GM8	42 - 42.5	22 – 23	8	8
	57.5	36 – 37	21	8
N,P	57.5	23 – 28	11	6
NM8, PM8	57.5	25 - 26	11	8
A	42 - 42.5	51 – 64	----	8
	57.5	65 – 78	---	8
B	42 - 42.5	32 – 45	17	6
E	42 - 42.5	30 - 37	15	6
L	42 - 42.5	22 - 24	8	6
	57.5	36 - 38	21	8

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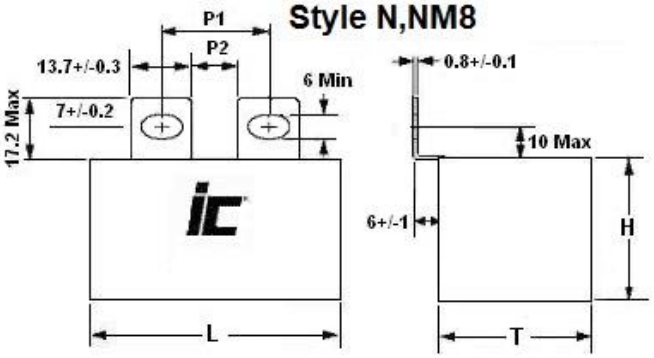
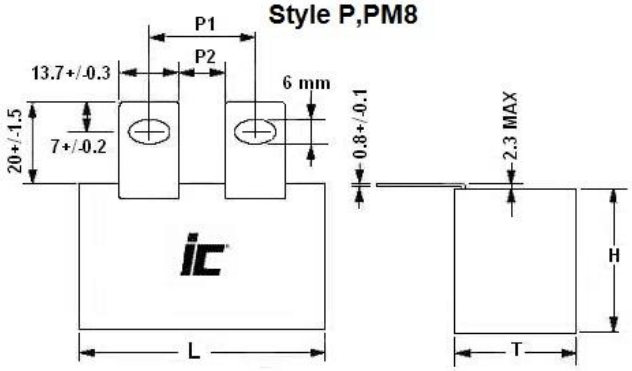
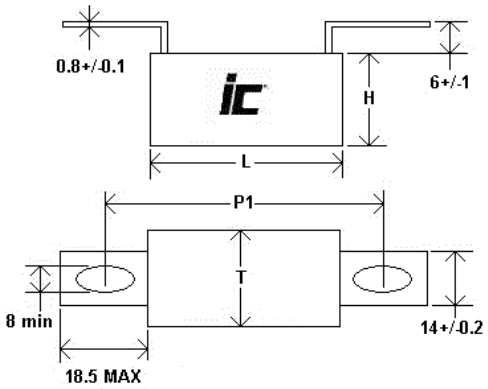
Style N,NM8



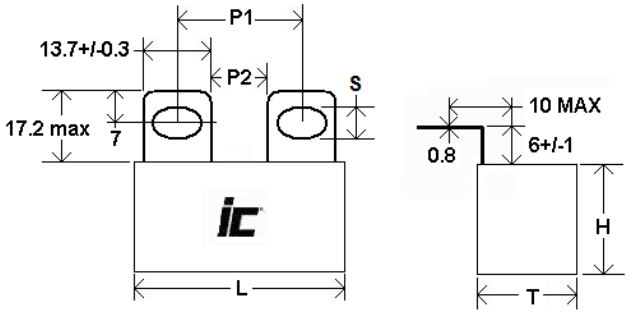
Style P,PM8



Style A



STYLE V, VM8, W, WM8



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