PMC

Metallized Polypropylene Film Capacitors

Direct Mount Snubber, Lug Terminals

FEATURES	High Current – High dvdt – Multiple Lug Styles
APPLICATIONS	Power Semiconductor Module Protection - Resonant circuit – Switching power supplies

Operating Temperature Range	**-40°C to +100°C**						
Capacitance Tolerance	±10% at 1 kHz, 25°C ±5% optional						
Non-Recurrent SVDC	**WVDC**	**250**	**330**	**400**	**600**	**700**	
	VAC	400	500	600	800	1000	
AC voltage (50/60 Hz)	**WVDC**	**250**	**330**	**400**	**600**	**700**	
	VAC	160	220	275	350	400	
	For T>+85°C , The voltage (DC/AC)must be decreased by (1.5/2.5)% per °C						
Dissipation Factor (MAX) 25°C	**Frequency (kHz)**	**C≤5uF**		**5<C≤25uF**		**C>25uF**	
	1	0.05%		0.08%		0.1%	
Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied	**Insulation Resistance**						
	3000 MΩxuF (not to exceed 30GΩ)						
Self Inductance	<1 nano-Henry per mm of lead spacing						
Capacitance Drift Factor	<0.5% after 2 years at 40°C						
Life Expectancy	100000 Hours @WVDC 30000 Hours @ VAC						
	Capacitance Change	≤3% of initially measured value					
Failure quota	300/ Billion component hours						
Damp Heat test	**56 days at40°C with 90 to 95%RH, +40°C and no voltage applied**						
	Capacitance Change	≤2% of initially measured value					
	Dissipation Factor	≤0.001 at 1kHz and 25°C					
	Insulation Resistance	≥50% of maximum specified value					
Self Inductance	<1 nano-Henry per mm of lead spacing						
Capacitance Drift Factor	<0.5% after 2 years at 40°C						
Capacitance Temperature Coefficient	-200 ppm/°C, ±100ppm/°C						
Dielectric Strength	**Terminal to Terminal**				**Terminal to case**		
	160% of rated VDC or 150% VAC applied for 2 Seconds and 25°C				3kVAC @ 50/60 Hz applied between terminals and case for 60 seconds at 25°C		
Dielectric	Polypropylene						
Construction	Metallized film						
Coating	Flame Retardant plastic box with epoxy resin (UL94V-0)						
Leads	Lead free tinned copper leads						

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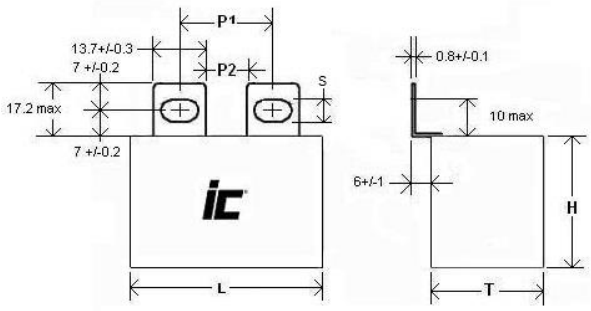
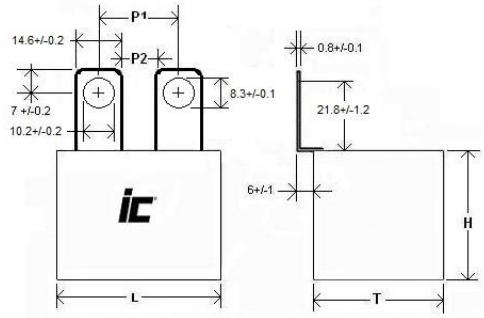
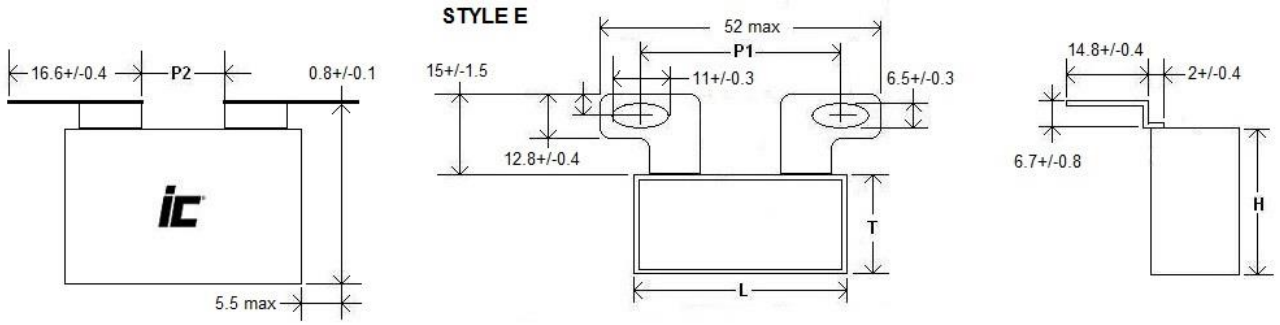
STYLE S, SM8, T ,TM8



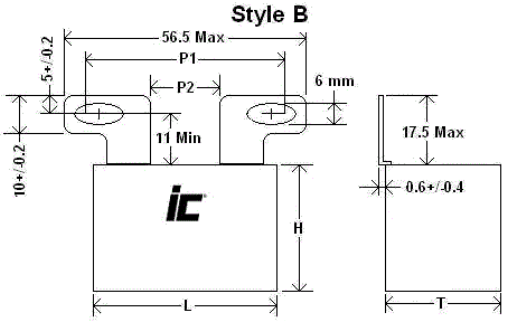
STYLE L



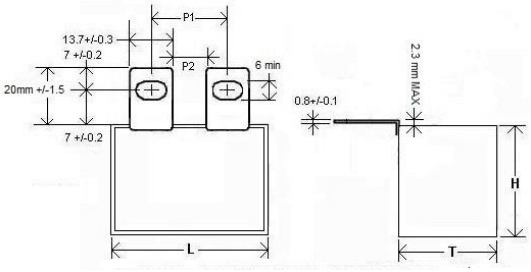
STYLE E



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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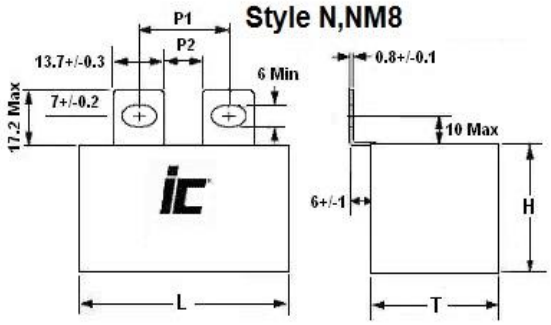
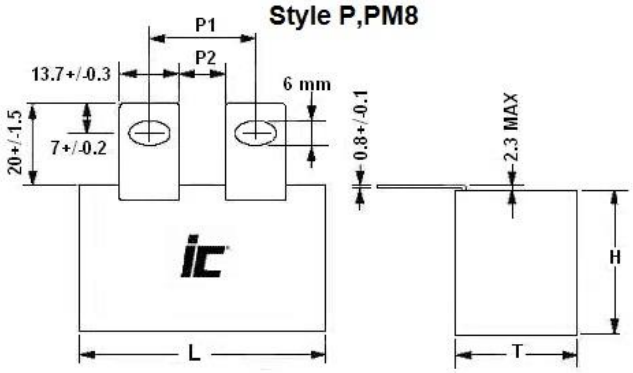
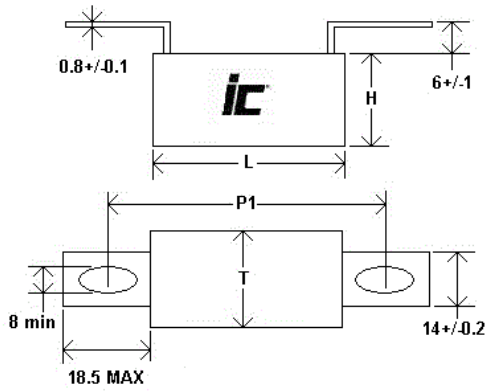
Style N,NM8



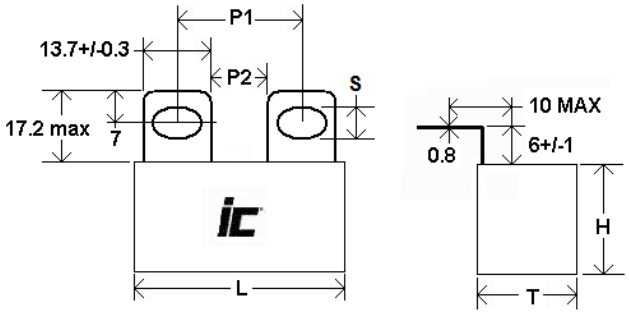
Style P,PM8



Style A



STYLE V, VM8, W, WM8



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Metallized Polypropylene, Power Semiconductor Direct Mount Snubber Lug terminals

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Maximum RMS Ripple Current (A) 100 kHz, +70°C	Typical ESR (mΩ) 100 kHz, +25°C	Dims LxHxT (mm)
250	10	106PMC250K#P2	25	18	2.7	42.5x27.5x24.5
250	15	156PMC250K#P1	25	23.5	2.3	42.5x35.5x33.5
250	20	206PMC250K#P1	25	27	2	42.5x35.5x33.5
250	22	226PMC250K#	25	27.5	1.8	42.5x35.5x33.5
250	25	256PMC250K#P1	25	28.5	1.9	42.5x35.5x33.5
250	30	306PMC250K#P0	25	30	1.8	42.5x45x33
250	33	336PMC250K#	25	31	1.7	42.5x45x33
250	35	356PMC250K#P0	25	32	1.7	42.5x45x33
250	50	506PMC250K#	15	32.5	2.2	57.5x50x35
250	60	606PMC250K#	15	34.5	2	57.5x50x35
330	6.8	685PMC330K#	30	18.5	2.8	42.5x27.5x24.5
330	15	156PMC330K#	30	26.5	2	42.5x35.5x33.5
330	20	206PMC330K#	30	29.5	1.8	42.5x45x33
330	22	226PMC330K#	30	30.5	1.7	42.5x45x33
330	25	256PMC330K#	17	26.5	2.7	57.5x45x30
330	30	306PMC330K#	17	27.5	2.5	57.5x45x30
330	35	356PMC330K#	17	31	2.3	57.5x50x35
330	40	406PMC330K#	17	32.5	2.1	57.5x50x35
400	4	405PMC400K#P2	40	16.5	3.4	42.5x27.5x24.5
400	5	505PMC400K#P2	40	18.5	2.9	42.5x27.5x24.5
400	6.8	685PMC400K#P1	40	23	2.5	42.5x35.5x33.5
400	10	106PMC400K#P1	40	26.5	2.1	42.5x35.5x33.5
400	12.5	126PMC400K#P0	40	29.5	2	42.5x45x33
400	15	156PMC400K#P0	40	31.5	1.9	42.5x45x33
400	20	206PMC400K#	20	26.5	2.9	57.5x45x30

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Maximum RMS Ripple Current (A) 100 kHz, +70°C	Typical ESR (mΩ) 100 kHz, +25°C	Dims LxHxT (mm)
400	22	226PMC400K#	20	29	2.7	57.5x50x35
400	25	256PMC400K#	20	30.5	2.6	57.5x50x35
600	2.5	255PMC600K#P2	55	16	4	42.5x27.5x24.5
600	3	305PMC600K#P2	55	17	3.6	42.5x27.5x24.5
600	3.3	335PMC600K#	55	17	3.3	42.5x27.5x24.5
600	4	405PMC600K#P1	55	21.5	2.8	42.5x35.5x33.5
600	4.7	475PMC600K#	55	24	2.4	42.5x35.5x33.5
600	5	505PMC600K#P1	55	24	2.5	42.5x35.5x33.5
600	6.8	685PMC600K#P0	55	28.5	2.2	42.5x45x33
600	9	905PMC600K#P0	55	31.5	1.9	42.5x45x33
600	10	106PMC600K#	30	23.5	3.5	57.5x45x30
600	12.5	126PMC600K#	30	26	3.2	57.5x50x35
600	15	156PMC600K#	30	28.5	2.9	57.5x50x35
700	1.5	155PMC700K#P2	70	14.5	4.8	42.5x27.5x24.5
700	2	205PMC700K#P2	70	16.5	4	42.5x27.5x24.5
700	2.5	255PMC700K#P1	70	19.5	3.4	42.5x35.5x33.5
700	3	305PMC700K#P1	70	21.5	3.1	42.5x35.5x33.5
700	3.3	335PMC700K#	70	22	2.9	42.5x35.5x33.5
700	4	405PMC700K#P0	70	26	2.6	42.5x45x33
700	4.7	475PMC700K#	70	27	2.2	42.5x45x33
700	5	505PMC700K#P0	70	29	2.3	42.5x45x33
700	6.8	685PMC700K#	40	22.5	3.8	57.5x45x30
700	8	805PMC700K#	40	25.5	3.5	57.5x50x35
700	9	905PMC700K#	40	27	3.2	57.5x50x35

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