# 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<br>±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<br>(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<br>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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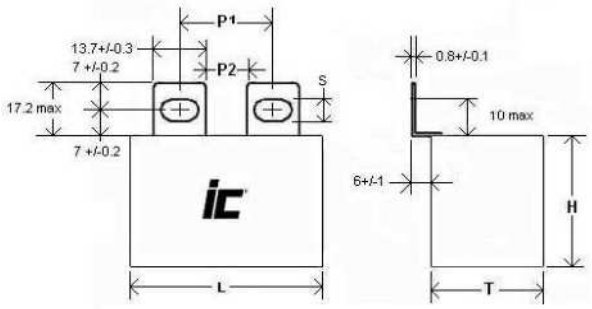
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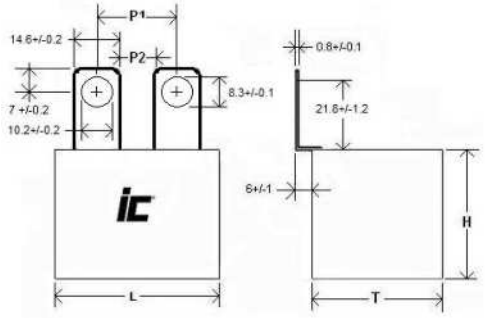
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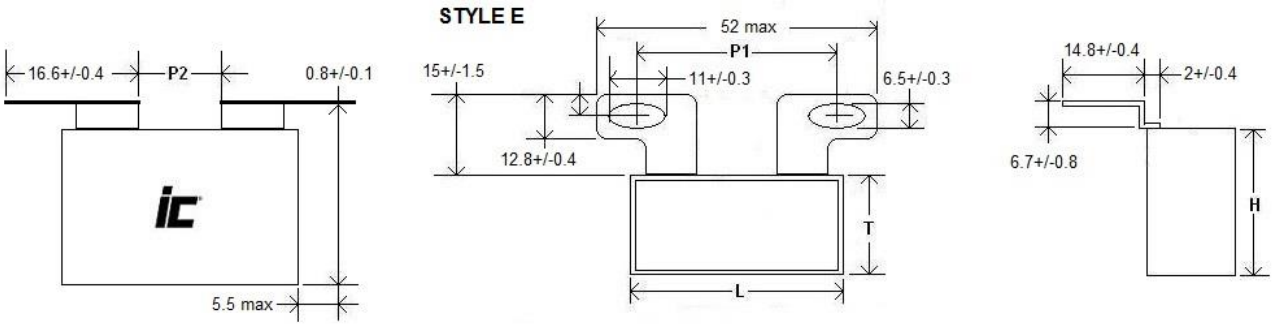
**STYLE S, SM8, T ,TM8**



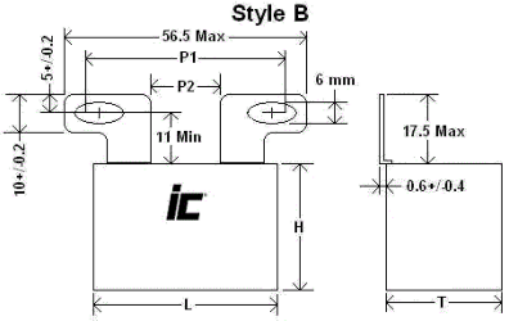

**STYLE L**



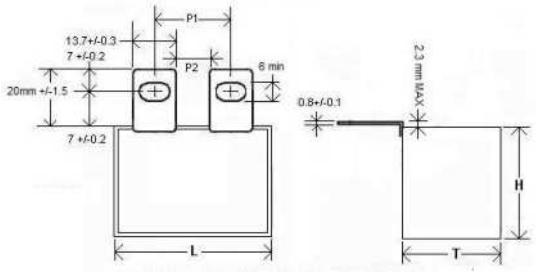

**STYLE E**




**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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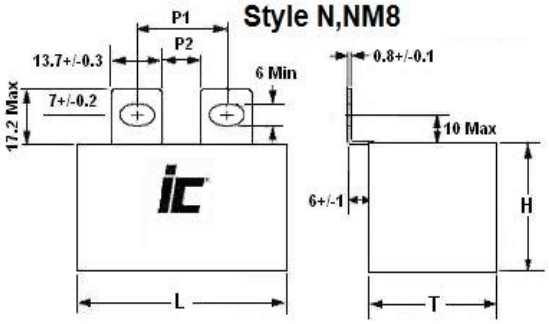
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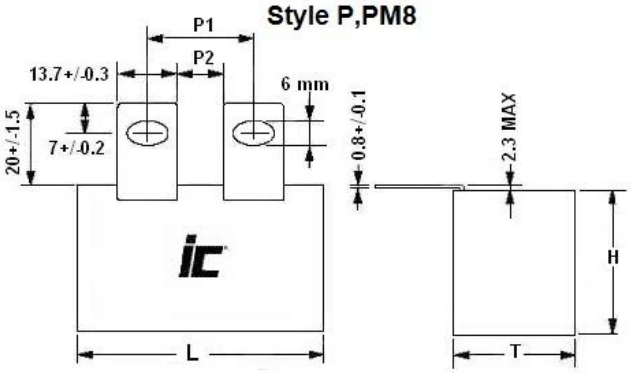
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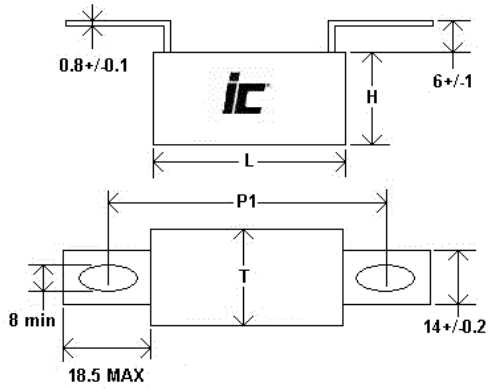
### Style N,NM8



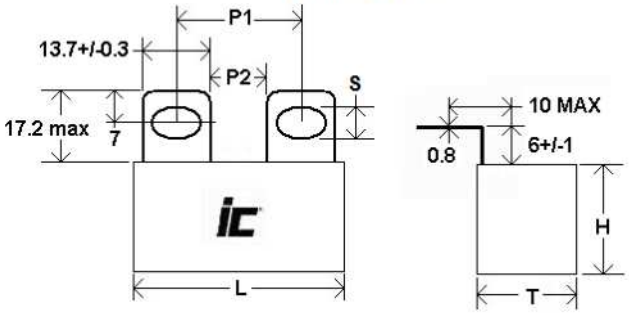

### Style P,PM8




### Style A




### STYLE V, VM8, W, WM8





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**High Current with 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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