

MPTS

DC Link Metalized Polypropylene Film



FEATURES

High Capacitance - High Voltage - Low Profile

APPLICATIONS

Induction Heaters - DC link - AC/DC motor Drives - Solar and Wind inverters

| | | | | |
|--|---|-------------|--|-------------|
| Operating Temperature Range | -40°C to +85°C | | | |
| Capacitance Tolerance | +10% at 1 kHz, 25°C | | | |
| VDC | 800 | 1000 | 1200 | 1400 |
| VAC | 230 | | | |
| Dissipation Factor Tan δ at 100 Hz and 25°C | 0.0002 MAX | | | |
| Insulation Resistance | ≤5000 MΩxF | | | |
| | After 1 minute of 100VDC applied between the terminals at 25°C | | | |
| Self Inductance | See part listing | | | |
| Dielectric Strength | Terminal to Terminal | | Terminal to case | |
| | 150% of VDC applied for 10 Seconds and 25°C | | 4KVAC at 50/60 Hz applied between the terminals and case for 60 Seconds and 25°C | |
| Construction | Metallized Polypropylene film | | | |
| Electrodes | Vacuum deposited Metal layers | | | |
| Coating | Flame retardant Solvent resistant plastic case (UL 94V-0) with epoxy end fill | | | |
| Impregnant | Silicone oil | | | |
| Lead terminations | Lead free tinned brass leads | | | |



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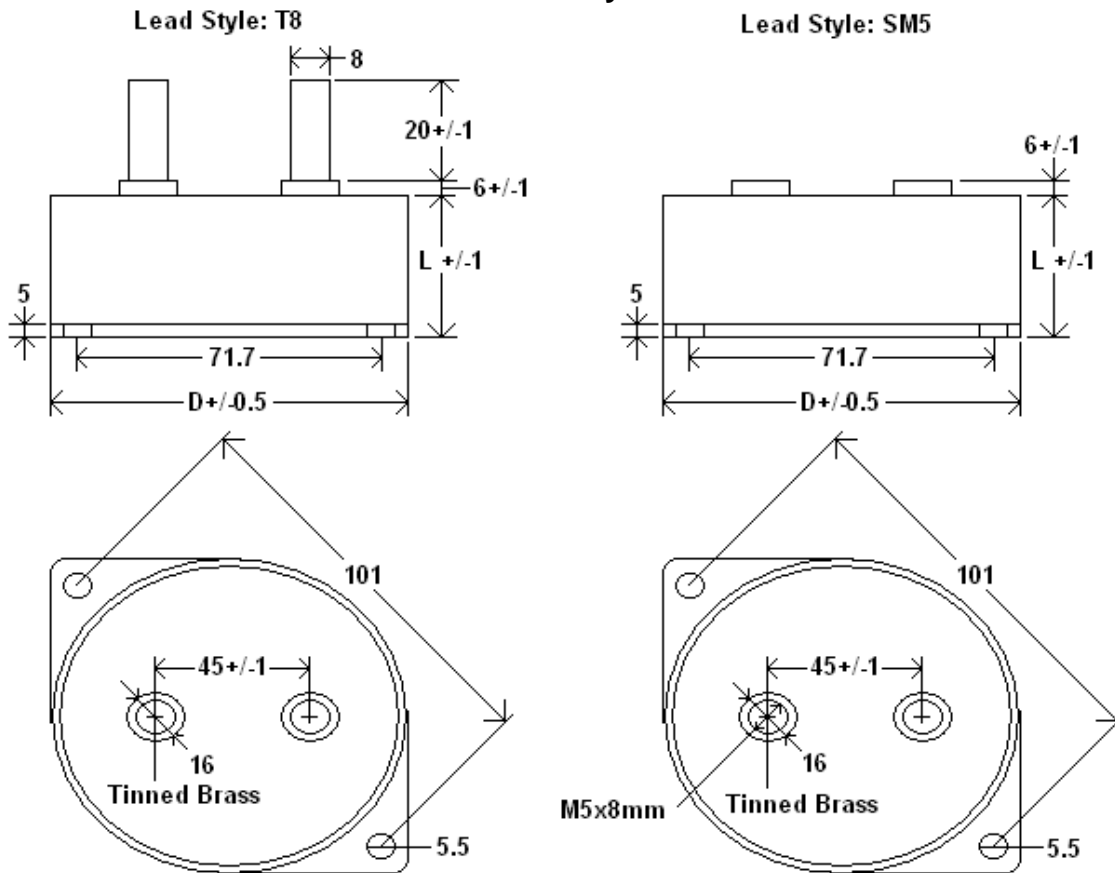
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MPTS

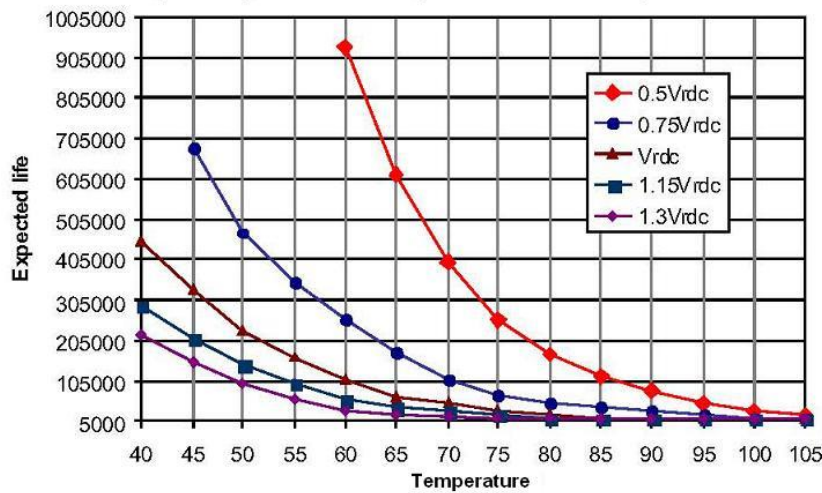
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Lead style



Hotspot temperature vs expected life with respect to % Vdc



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MPTS

Metallized Polypropylene
round tube with screw
terminals

| Capacitance (μ F) | WVDC | IC PART NUMBER | Resonant Frequency (kHz) | Maximum RMS Ripple Current (A) 10 kHz, +70°C | Typical ESR (m Ω) 1 kHz, +25°C | Thermal Resistance (°C/W) | Dims D \times L (mm) |
|---------------------------|------|----------------|--------------------------------|---|---|---------------------------------|---------------------------|
| 33 | 1400 | 336MPTS142KHA# | 0 | 64 | 0.8 | 21 | 85x40 |
| 47 | 1200 | 476MPTS122KHA# | 0 | 67 | 0.7 | 22 | 85x40 |
| 52 | 1400 | 526MPTS142KHA# | 0 | 60 | 1.1 | 24 | 85x51 |
| 66 | 1000 | 666MPTS102KHA# | 0 | 70 | 0.6 | 21 | 85x40 |
| 70 | 1200 | 706MPTS122KHA# | 0 | 65 | 1 | 22 | 85x51 |
| 70 | 1400 | 706MPTS142KHB# | 0 | 59 | 1.4 | 22 | 85x64 |
| 100 | 800 | 107MPTS800KHA# | 0 | 74 | 0.5 | 23 | 85x40 |
| 100 | 1000 | 107MPTS102KHA# | 0 | 68 | 0.8 | 22 | 85x51 |
| 100 | 1200 | 107MPTS122KHB# | 0 | 64 | 1.3 | 24 | 85x64 |
| 140 | 1000 | 147MPTS102KHB# | 0 | 65 | 1 | 23 | 85x64 |
| 160 | 800 | 167MPTS800KHA# | 0 | 73 | 0.8 | 24 | 85x51 |
| 220 | 800 | 227MPTS800KHB# | 0 | 72 | 1 | 21 | 85x64 |