

# 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

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



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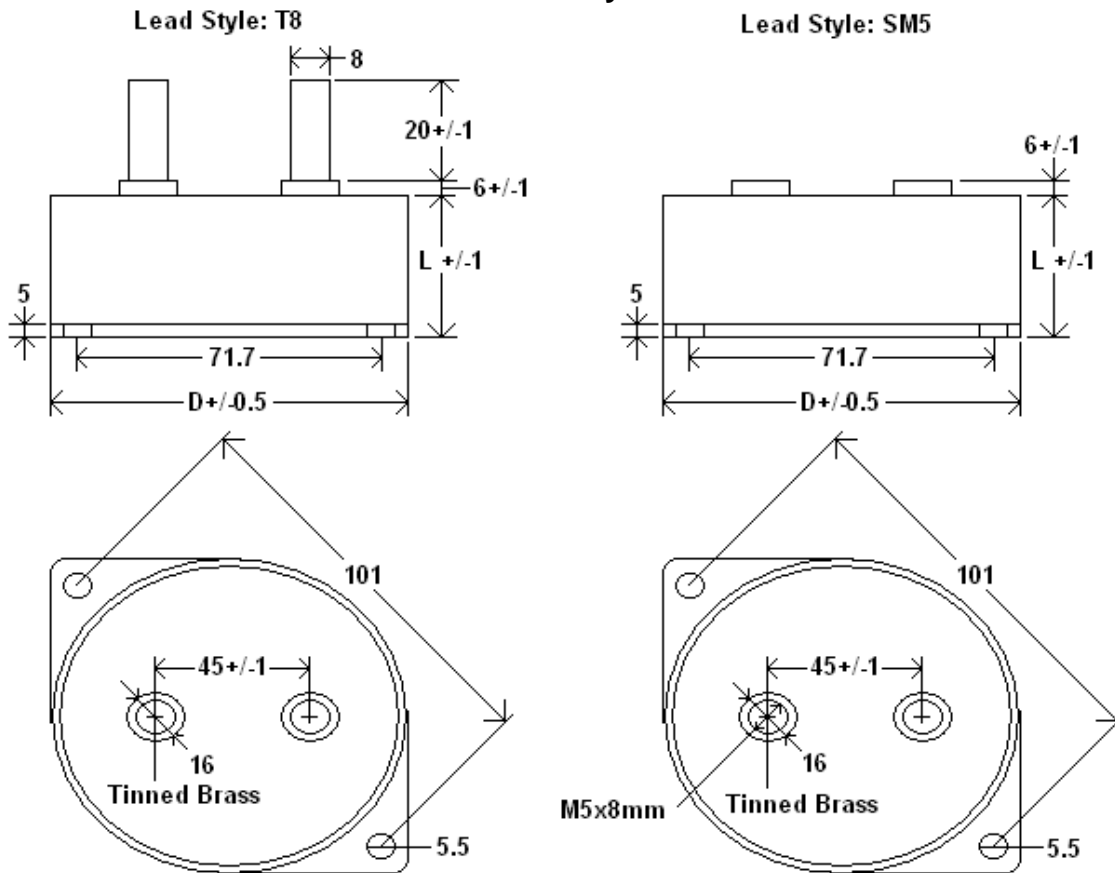
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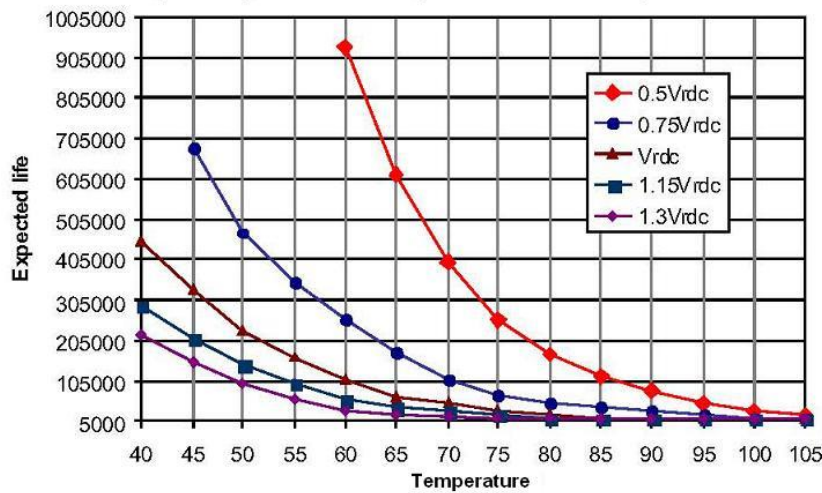
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### Lead style



Hotspot temperature vs expected life with respect to % Vdc



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Metallized Polypropylene  
round tube with screw  
terminals

Capacitance ( $\mu$ F)	WVDC	IC PART NUMBER	Resonant Frequency (kHz)	Maximum RMS Ripple Current (A) 10 kHz, +70°C	Typical ESR (m $\Omega$ ) 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