

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	0.002 MAX				
Insulation Resistance	≤5000 MΩxuF				
	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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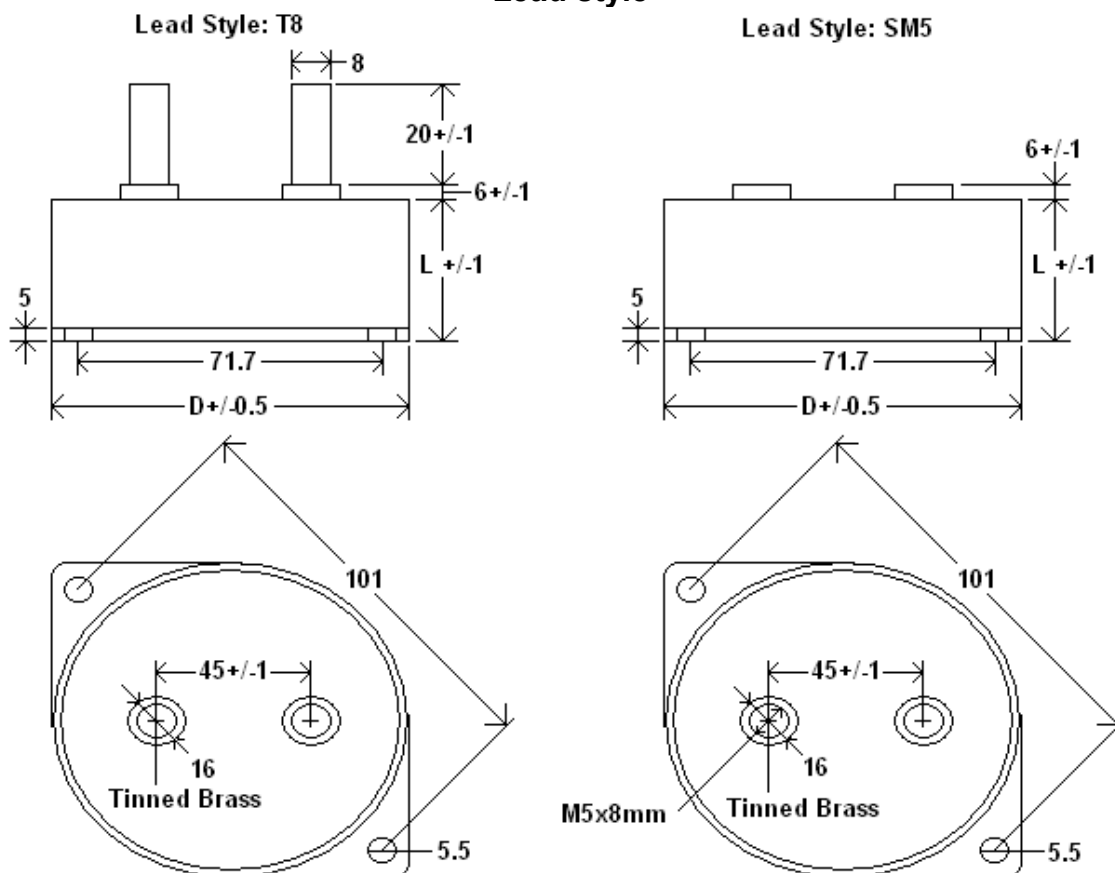
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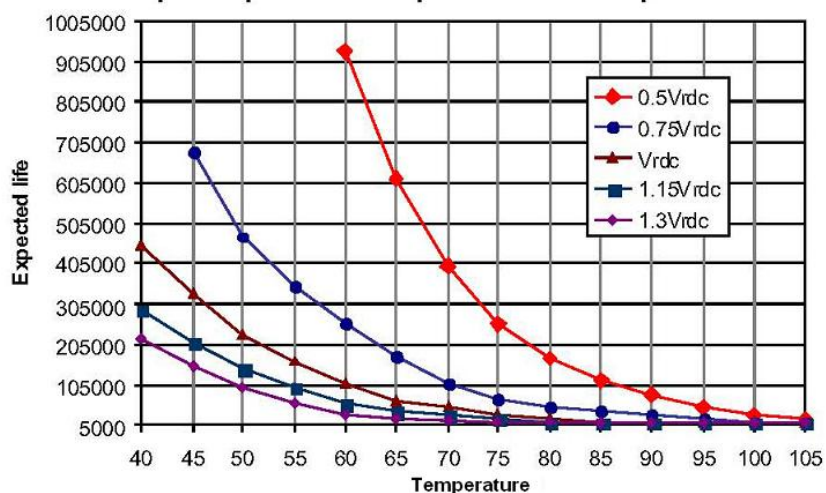
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Lead style



Hotspot temperature vs expected life with respect to % Vdc



MPTS

**Metallized Polypropylene
round tube with screw
terminals**

Capacitance (μF)	WVDC	IC PART NUMBER	Resonant Frequency (kHz)	Maximum RMS Ripple Current (A) 10 kHz, +70°C	Typical ESR (mΩ) 1 kHz, +25°C	Thermal Resistance (°C/W)	Dims DxL (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