

TPM RANGE

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TPM RANGE

The TPM range are in the form of a Synthetic Resin Bonded Paper tube hermetically sealed at both ends with resin . Axial terminations are via M5 x 12mm studs or tinned copper wire.

SPECIFICATIONS

They are impregnated and filled with a mineral oil. The container is a Synthetic Resin Bonded Paper tube sealed at both ends with resin assuring hermetic sealing. The capacitors are terminated with M5 x 12mm studs or tinned copper wire.

NOTE: The impregnant used is a non toxic highly purified and inhibited mineral oil.

Capacitance Range: 0.0005 μ F – 2 μ F. The tolerance is +/-10%. Other tolerances are available on request.
Nominal values measured at 1kHz.

Temperature Range: -55°C to 85°C. The nominal voltage rating is applicable from -55°C to 85°C.

Temperature Coefficient: Capacitance will increase by 2% per 100°C temperature rise.

Voltage Range: 1kV – 100kVDC.

Note: The impregnant used is a non-toxic highly purified and inhibited mineral oil.

APPLICATIONS: The TPM range of capacitors are specifically designed for high voltage filters and can be successfully used in the following applications. High Voltage Smoothing; Induction Heating; RF Transmitter Power Supplies; X-Ray Power Supplies.

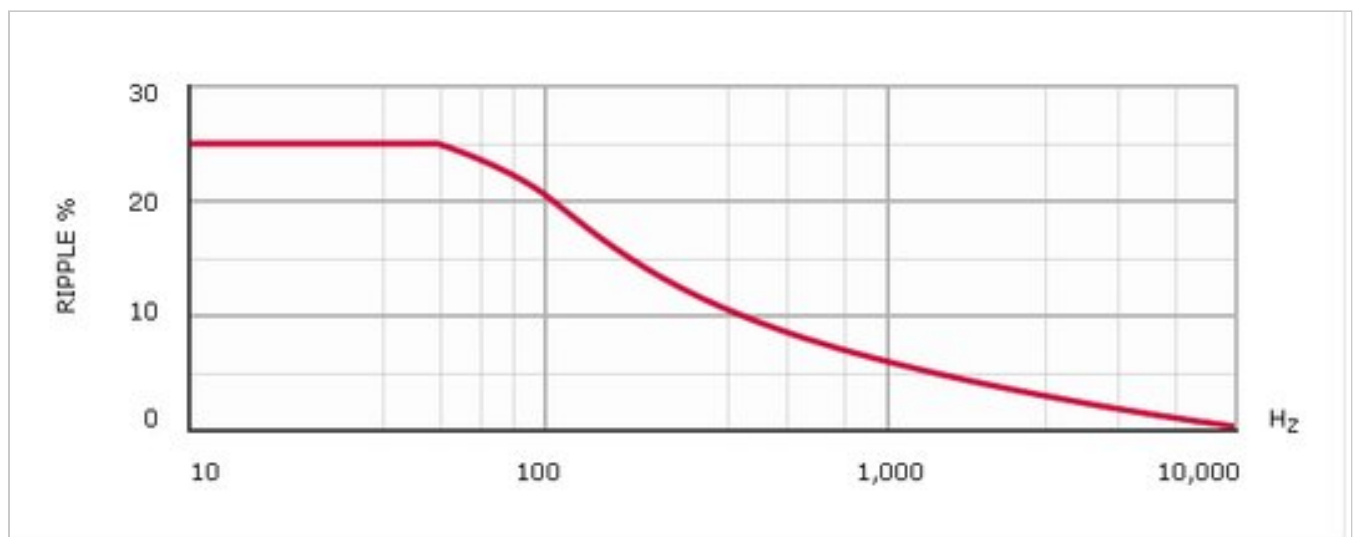
Capacitance Range: 0.001 μ F – 2 μ F. The tolerance is +/-10%. Other tolerances are available on request.
Nominal values measured at 1kHz.

Temperature Range: -40°C to 85°C. Derating is required for higher operating temperatures.

Temperature Coefficient: Capacitance will increase by 2% per 100°C temperature rise.

Voltage Range: 1kV – 100kVDC

RIPPLE:

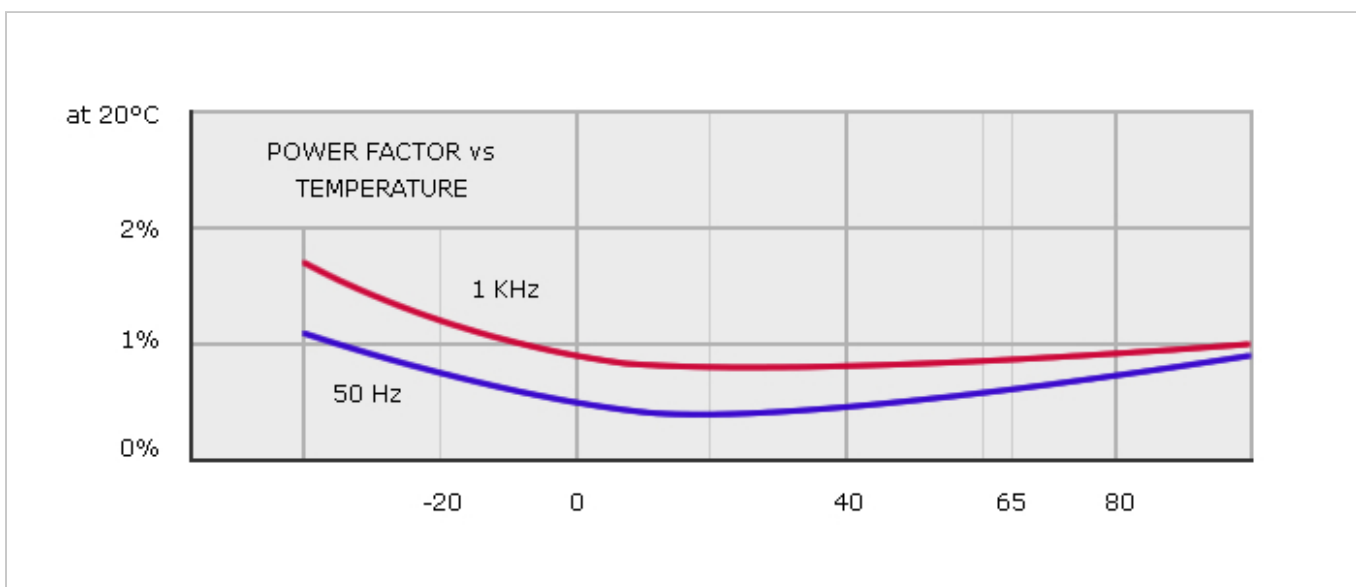


The sum of the peak ripple voltage and the DC voltage should not exceed the rated voltage. Refer to graph fig 1 for permissible peak-to-peak ripple voltage as a percentage of rated voltage for various frequencies.

Test Voltage: V Test

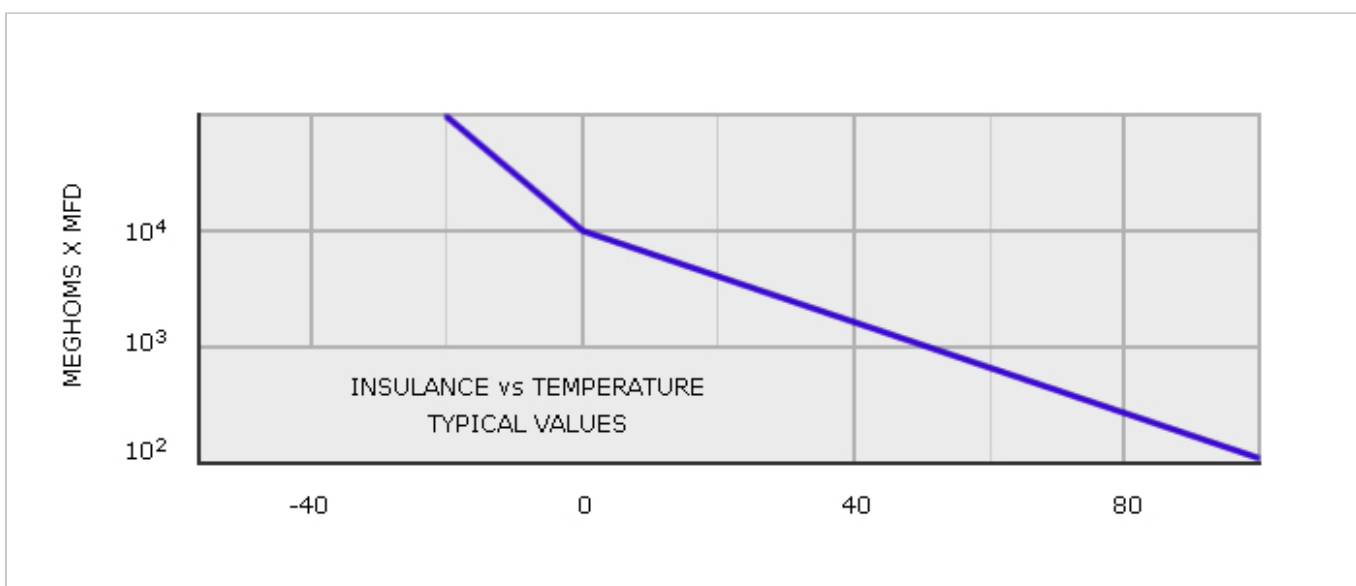
For DC rating <20kV:		V Test = 2.0 x Rated Voltage for 1 minute.
For DC rating ≥20kV:		V Test = 1.5 x Rated Voltage for 1 minute.
Case to terminal Test voltage = V Test + 1kV		

POWER FACTOR



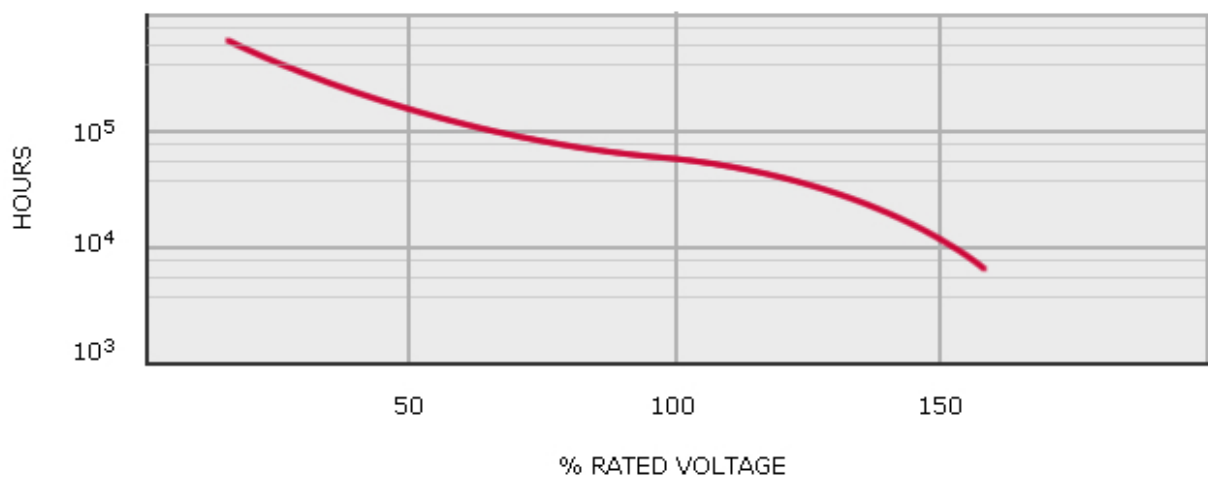
Power Factor: Variable; function of temperature and frequency. See fig 2. Nominal value < 0.5% at 20°C.

DIELECTRIC RESISTANCE

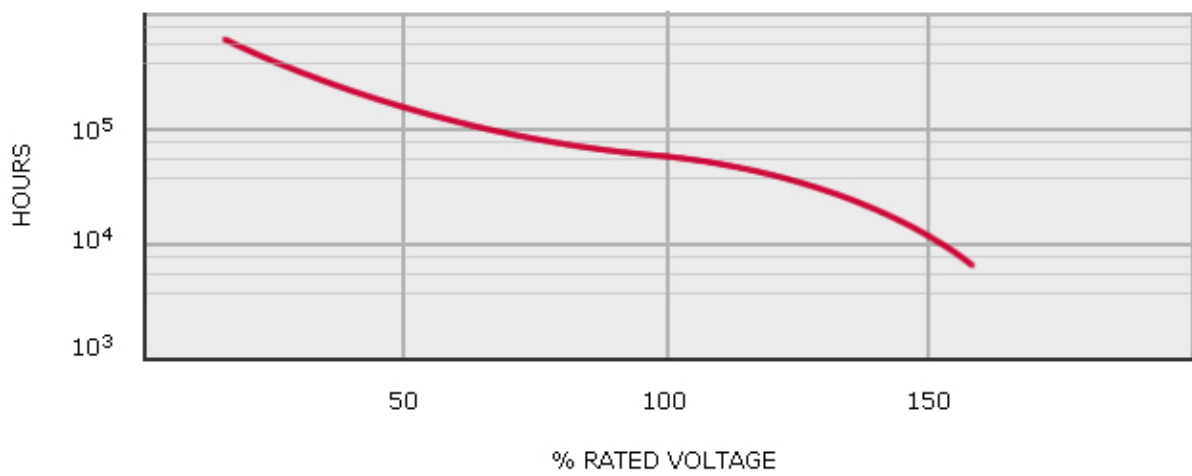


Dielectric Resistance: (Parallel resistance) Indicated by the graph of insulance (Mohms x μ F) vs Temperature (fig 3). The insulance(Mohms x μ F) is nominally 10000s at +20°C. (Measurements taken after 1 minute with an applied voltage of 500V).

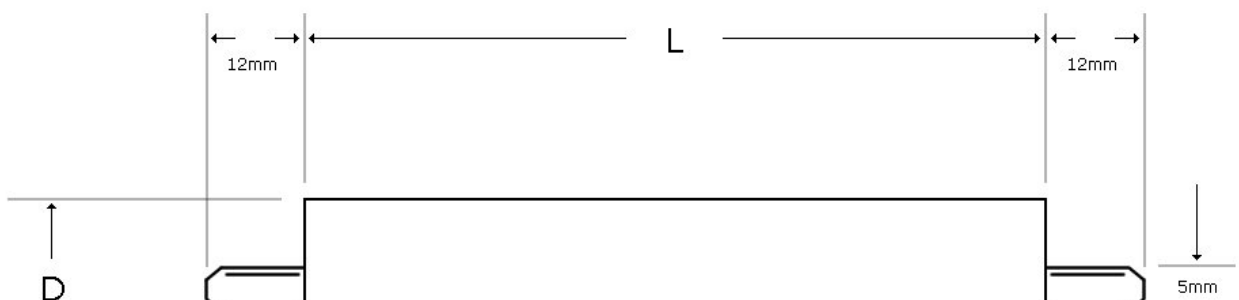
LIFE EXPECTANCY



Life expectancy: TPM type capacitors are designed for a life expectancy of 50000 hours at 65°C. To achieve the same life expectancy at 85°C derate to 60% of rated voltage.



DIMENSIONS





SELECT WORKING VOLTAGE:

TPM Range 

Voltage	Part No.	CAP	L mm	D mm
(VDC Wkg)		(uF)		
1000	TPM10-103	0.01	42	17
	TPM10-503	0.05	48	20
	TPM10-254	0.25	60	22
	TPM10-504	0.5	70	30
	TPM10-205	2	110	35
2000	TPM20-103	0.01	48	17
	TPM20-503	0.05	60	17
	TPM20-104	0.1	60	22
	TPM20-254	0.25	60	30
	TPM20-504	0.5	75	35
4000	TPM40-102	0.001*	42	17
	TPM40-103	0.01	42	20
	TPM40-503	0.05	60	22
	TPM40-104	0.1	60	30

	TPM40-504	0.5	95	42
6000	TPM60-102	0.001*	55	17
	TPM60-502	0.005*	65	17
	TPM60-203	0.02	80	20
	TPM60-104	0.1	100	35
	TPM60-254	0.25	135	42
10000	TPM100-102	0.001*	65	17
	TPM100-103	0.01	80	22
	TPM100-503	0.05	105	35
	TPM100-104	0.1	170	35
	TPM100-254	0.25	205	42
15000	TPM150-102	0.001*	95	17
	TPM150-502	0.005*	110	20
	TPM150-103	0.01	110	30
	TPM150-503	0.05	150	42
	TPM150-104	0.1	245	42
25000	TPM250-501	0.0005*	145	17
	TPM250-102	0.001	145	20
	TPM250-502	0.005	175	30
	TPM250-103	0.01	175	35
	TPM250-503	0.05	300	42

40000	TPM400-102	0.001*	210	20
	TPM400-202	0.002	275	20
	TPM400-103	0.01	275	42
1500	TPM15-103	0.01*	42	17
	TPM15-254	0.25	60	30
	TPM15-504	0.5	110	30
	TPM15-105	1	110	35
	TPM15-205	2	110	42
3000	TPM30-502	0.005*	42	17
	TPM30-203	0.02	48	20
	TPM30-104	0.1	55	30
	TPM30-504	0.5	75	42
	TPM30-105	1	110	42
5000	TPM50-102	0.001*	42	17
	TPM50-502	0.005*	42	20
	TPM50-103	0.01	48	20
	TPM50-503	0.05	60	25
	TPM50-254	0.25	95	35
8000	TPM80-502	0.005*	65	20
	TPM80-103	0.01	80	20
	TPM80-503	0.05	105	35

	TPM80-104	0.1	105	42
	TPM80-254	0.25	170	42
12000	TPM120-202	0.002*	95	20
	TPM120-103	0.01	115	30
	TPM120-203	0.02	115	35
	TPM120-503	0.05	180	35
	TPM120-104	0.1	180	42
20000	TPM200-102	0.001*	115	22
	TPM200-103	0.01	145	30
	TPM200-203	0.02	195	30
	TPM200-503	0.05	245	42
	TPM200-104	0.1	320	42
30000	TPM300-501	0.0005*	170	17
	TPM300-202	0.002	170	25
	TPM300-103	0.01	205	35
	TPM300-203	0.02	280	35
	TPM300-303	0.03	280	42
50000	TPM500-501	0.0005*	275	22
	TPM500-202	0.002	340	22
	TPM500-103	0.01	340	42

NOTES:

DIMENSIONS IN MILLIMETRES +/- 1mm

Max. Torque on terminals = 2Nm

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