

Must for electrical engineers/power capacitor users :

SINCE 1975

Malde

Area of conducting plate

Capacitance

C

$\propto$

$\frac{A}{T}$

Dielectric thickness

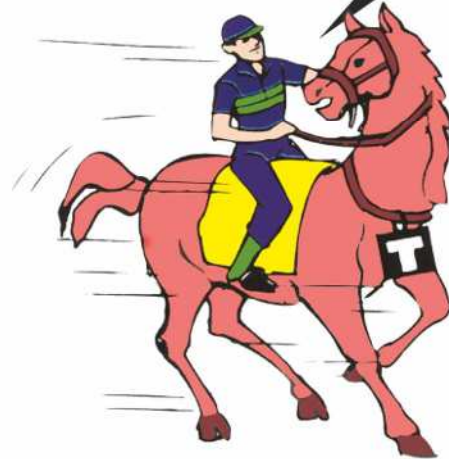
I know I am weak. But many manufacturers adopt me to earn the bumper profit.



SH - MPP

In this case (T) is less, therefore (A) required is also less to get same capacitance (C). Hence material consumption is less in  $\propto (T)^2$  which provides low cost design but unpredictable and **SHORT LIFE CAPACITOR**.

Everybody knows, I am strong in all respects but only those manufacturers adopt me who want to provide long working life Power Capacitor.



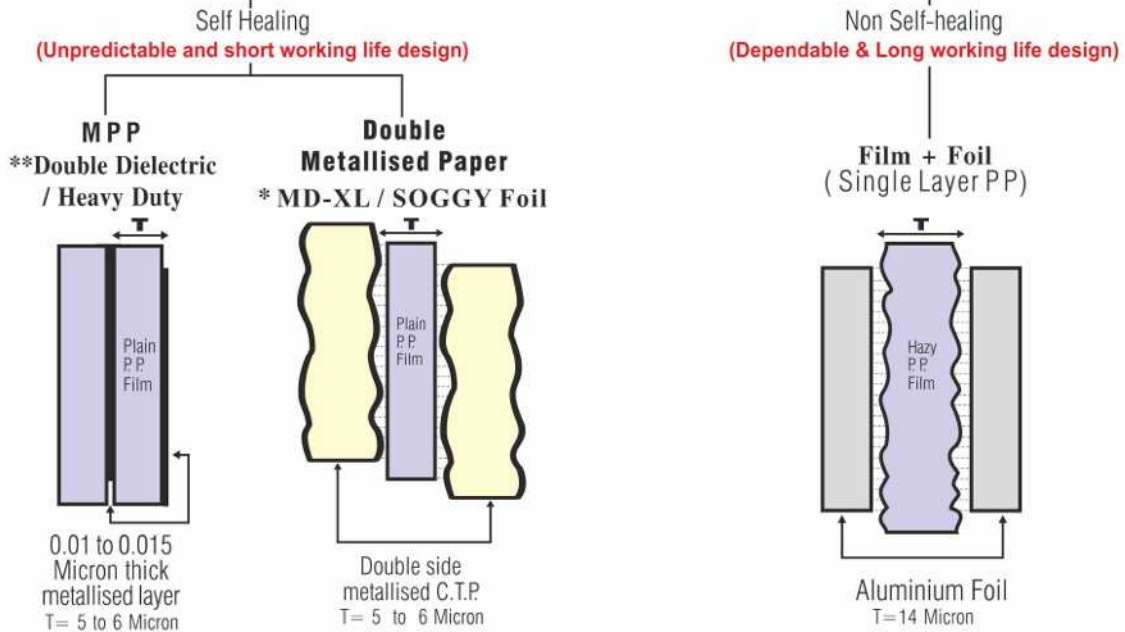
FILM + FOIL

In this case (T) is more, therefore (A) required is more to get same capacitance (C). Hence material consumption is more in  $\propto (T)^2$  which provides costly design but dependable and **LONG LIFE CAPACITOR**.

Check the Name Plate of failed capacitor - MAY FIND TYPE AS "SH-MPP", MAY CONCLUDE AS NOT SUITABLE FOR OUR VOLTAGE SUPPLY SYSTEM AND AMBIENT TEMPERATURE.

READ

# L. T. POWER CAPACITORS



Design	M. P. P.	Double Metallised Paper	FILM + FOIL
T	5 to 6 micron	5 to 6 micron	14 micron
Oil Thickness	NIL	0.5 micron	0.5 micron
Effective Thickness	5 to 6 micron	5.5 to 6.5 micron	14.5 micron
Dielectric Material Consumption	8% to 13%	10% to 15%	100%

- P.P. Film = Polypropylene Film
- C. T. P. = Capacitor Tissue Paper

$$C \propto \frac{A}{T}$$

From above you will notice that low cost power capacitor manufacturers go for lesser T (dielectric thickness), sacrificing the working life of the capacitor and saving material in  $\propto T^2$  (as T reduces, area A also reduces to get same capacitance).

## HUMBLE REQUEST TO ALL POWER CAPACITOR USERS

At least now, make a routine habit to measure a capacitor current with help of Ammeter / Tong Tester once in two months and maintain the records. If any reduction in current / failure of capacitor is noticed, please protest to the supplier / manufacturer immediately. This may help you to protect your investment in power capacitor.

If you feel that we are providing Good Information, then please send the Name, Contact Number & Address of Electrical Consultants / Contractor / Panel Builder

Given for information upto our best of knowledge without any guarantee as regards either for mistake or omission



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25 KVAr x 4 Nos. in Bank form