



## MPT Metallized Polypropylene Film capacitor (Tubular)

### CONSTRUCTION

\* Polypropylene film dielectric with vacuum evaporated metal electrodes, axial leads of tinned wire are electrically welded to the contact metal layer of the ends of capacitor winding out wrapped with Mylar tape and ends sealed with epoxy resin.

### FEATURE

- \* Non-inductive construction
- \* Low DF and high IR
- \* High capacitance value available and compact size



### APPLICATION

- \* Coupling decoupling by - passing and timing circuit.
- \* Automatic control system, communication equipment.
- \* Charging/discharging lighting noise suppression and frequency modulation.

### SPECIFICATIONS

RoHS Compliant

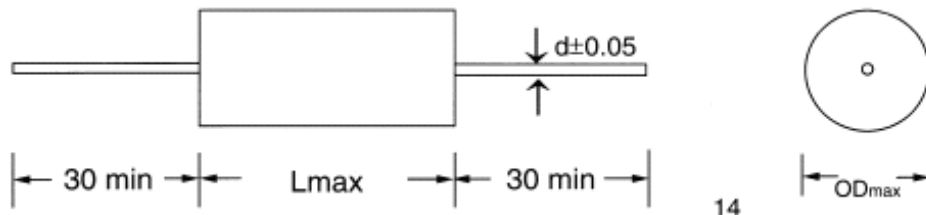


Dielectric	Polypropylene film
Electrodes	Vacuum evaporated metal
Coating	Out wrapped with Mylar tape and ends sealed with epoxy resin
Leads	Radial leads of tinned wire
Reference Standard	IEC 384-16; GB 10190-1988
Temperature Range	55/85/21 (From 85°C up to 105°C with derating voltage 1.25%/°C)
Capacitance Versus Rated voltage ( $U_R$ )	100VDC 0.01 $\mu$ F --- 12 $\mu$ F 250VDC 0.01 $\mu$ F --- 12 $\mu$ F 400VDC 0.01 $\mu$ F --- 3.3 $\mu$ F 630VDC 0.01 $\mu$ F --- 2.2 $\mu$ F
Capacitance Tolerance	M= $\pm$ 20% K= $\pm$ 10% J= $\pm$ 5%
Dissipation Factor (Tangent of Loss)	DF $\leq$ 0.1% (at 20°C 1KHz)
Voltage Proof	1.6* $U_R$ (5s at 20°C)
Insulation Resistance	C $\leq$ 0.33 $\mu$ F; IR $\geq$ 30000M $\Omega$ C>0.33 $\mu$ F; IR*C $\geq$ 5000S (1minute at 20°C and RH $\leq$ 65%)
Endurance	1000hours with 125% of rated voltage at 85°C after the Test: $\Delta$ C/C $\leq$ 5%; $\Delta$ DF $\leq$ 0.4% (C>1 $\mu$ F) $\Delta$ DF $\leq$ 0.50% (C $\leq$ 1 $\mu$ F) IR $\geq$ 50% of the specified value (20°C 1KHz)



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### OUTLINE DRAWING



14

### DIMENSION (SPECIAL SIZE OR ITEMS ON REQUEST)

Unit:mm

CAPACITANCE		100VDC			250VDC			400VDC			630VDC		
SYMBOL	uF	L	OD	dØ	L	OD	dØ	L	OD	dØ	L	OD	dØ
103	0.010	16.0	5.0	0.6	16.0	5.0	0.6	16.0	5.0	0.6	16.0	5.5	0.6
153	0.015	16.0	5.0	0.6	16.0	5.0	0.6	16.0	5.0	0.6	16.0	6.0	0.6
223	0.022	16.0	5.0	0.6	16.0	5.0	0.6	16.0	5.0	0.6	16.0	7.0	0.6
333	0.033	16.0	5.0	0.6	16.0	5.0	0.6	16.0	5.0	0.6	16.0	8.0	0.6
473	0.047	16.0	5.0	0.6	16.0	5.0	0.6	16.0	5.0	0.6	16.0	9.0	0.6
683	0.068	16.0	5.0	0.6	16.0	5.0	0.6	16.0	5.0	0.6	21.0	9.0	0.8
											26.0	9.0	0.8
104	0.10	16.0	5.0	0.6	16.0	5.0	0.6	21.0	8.0	0.8	21.0	10.0	0.8
											26.0	11.0	0.8
154	0.15	16.0	5.0	0.6	16.0	5.5	0.6	21.0	9.0	0.8	26.0	11.0	0.8
											26.0	14.0	0.8
224	0.22	16.0	5.0	0.6	16.0	8.5	0.6	21.0	9.5	0.8	26.0	13.0	0.8
334	0.33	16.0	6.0	0.6	21.0	8.0	0.8	26.0	10.0	0.8	31.0	14.0	0.8
474	0.47	16.0	6.5	0.6	21.0	9.0	0.8	26.0	12.0	0.8	31.0	15.0	0.8
684	0.68	21.0	8.5	0.8	26.0	9.0	0.8	31.0	12.5	0.8	31.0	18.0	0.8
105	1.0	21.0	10.0	0.8	26.0	11.0	0.8	31.0	15.0	0.8	31.0	20.5	0.8
155	1.5	26.0	10.5	0.8	26.0	12.0	0.8	31.0	18.0	0.8			
225	2.2	26.0	11.0	0.8	31.0	13.5	0.8						
335	3.3	26.0	14.0	0.8	31.0	16.5	0.8						
475	4.7	31.0	15.0	0.8	31.0	19.0	0.8						
685	6.8	31.0	17.5	0.8	36.0	20.0	0.8						
106	10	31.0	20.0	0.8	46.0	18.0	0.8						
126	12	31.0	21.0	0.8	46.0	20.0	0.8						
136	13.0	56.0	30.0	0.8	56.0	30.0	0.8						