

Metallized Polypropylene Film Capacitor.**Type: MPT (Epoxy resin sealed/Axial leads)****Working Voltage: 630(2J) VDC****Capacitance Range: 0.001 μ F、0.0022 μ F、0.0033 μ F、0.0047 μ F、0.1 μ F、0.022 μ F、0.033 μ F、0.047 μ F、0.068 μ F、0.1 μ F、0.22 μ F、0.33 μ F、0.47 μ F、0.68 μ F、1.0 μ F****Capacitance Range Tolerance: K ($\pm 10\%$)****Temperature Range: - 25 $^{\circ}$ C-- +85 $^{\circ}$ C****Characteristics**

ARTICLE	APPLICATION ITEM	CHARACTERISTICS	TEST METHOD
1.	Dielectric Strength (Between Terminals)	No damage	R.V $\times 1.75\%$ VDC For 2 Sec 25 $^{\circ}$ C
	Test voltage between terminals and case (Utc)		1kV 1.5Khz applied for 60s at 25 $\pm 5^{\circ}$ C
2.	Insulation Resistance (Between Terminals)	Cap $\leq 0.33\mu$ F IR>30,000MOHM Cap>0.33 μ F IR>10,000MOHM $\times \mu$ F	Measured at 100VDC after 1 minute. between terminals, at 25 \pm $^{\circ}$ C.
3.	Capacitance	Within the specification	Measured with frequency 1Khz and AC voltage less than 6V.
4.	Dissipation factor	$\tan \delta < 0.1\%$	
5.	Tensile strength of terminations	No damage	Loading force in bending the lead to 90 of the body. 0.6-0.8
6.	Vibration	No opening and short happened No damage in element junction and appearance.	10 – 55Hz 1.5 mm amplitude 3 direction 2H Per direction.
7.	Solderability	Good tinning, by eye measurement more than 3/4 of circumference is covered with new solder	Solder temp. 245 $^{\circ}$ C $\pm 5^{\circ}$ C dwell time 3 ± 0.5 Sec
8.	Cold	Capacitance change within + 3 -0% of 25 $^{\circ}$ C	At -40 $^{\circ}$ C no Voltage applied
9.	Heat	Capacitance change within + 0 -5% of 25 $^{\circ}$ C	At + 85 $^{\circ}$ C no Voltage applied
10.	Humidity life test	Appearance: No damage Dielectric strength: No damage IR: > 30% of initial value cap. change $\leq 5\%$ of initial value $\tan \delta < 0.1\%$	Temp. and humidity 40 $^{\circ}$ C 90 - 95% R.H. add W.V. for 500H then keep 16H under room temp.

ARTICLE	APPLICATION ITEM	CHARACTERSTICS	TEST METHOD
11.	Heat life test	Appearance: no damage IR: > 50% of Specified Value cap. change: ≤3% of initial value tanδ < 0.1%	Add 125% of W.V. 85°C-5% after 5'000 hours at Rums or after 3'000 hours at Ur
12.	Sort test	Appearing: No damage Dielectric strength: No damage Capacitance: within the specific Loss angle D.F: within the specific	Vms×√2VDC for 3~5 Times discharge.
13.	Epoxy resin filled	Epoxy resin will not overflow The bottom of the tape.	By vernier measurement
14.	A storage needs to be kept indoors at -10~+40°C and relative humidity of under 75% without any sudden temperature changes, direct sunlight and corrosive gas around.		

8. Marking

a. w.v.

b. Capacitance

c. Capacitance tolerance

d. Trading mark

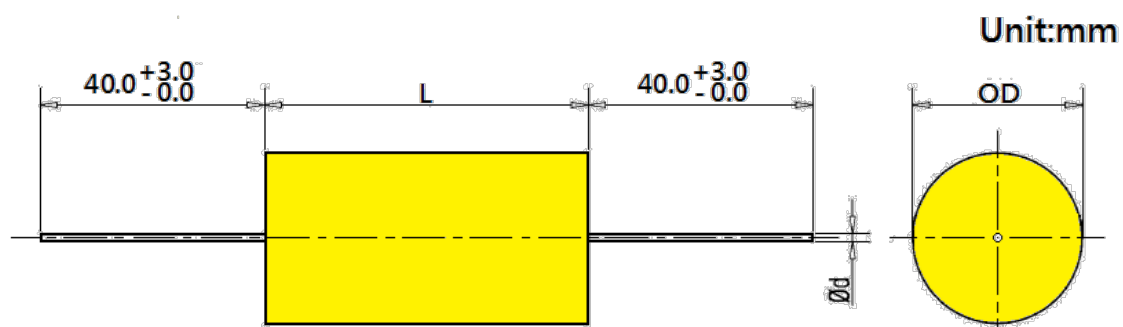
102K 222K 332K 472K 103K
630V 630V 630V 630V 630V

223K 333K 473K 683K 104K
630V 630V 630V 630V 630V

224K 334K 474K 684K 105K
630V 630V 630V 630V 630V

9. Terminal & Dimension

PART NO.	VOLTAGE	CAPACITANCE		DIMENSION(±0.5mm)		
		SYMBOL	μF	L	OD	d
MPT102K2JN0	630VDC	102	0.001	15.0	6.5	0.6
MPT222K2JN0	630VDC	222	0.0022	15.0	7.0	0.6
MPT332K2JN0	630VDC	332	0.0033	15.0	7.0	0.6
MPT472K2JN0	630VDC	472	0.0047	15.0	8.0	0.6
MPT103K2JN0	630VDC	103	0.01	15.0	8.0	0.6
MPT223K2JN0	630VDC	223	0.022	15.0	8.0	0.6
MPT333K2JN0	630VDC	333	0.033	15.0	8.5	0.6
MPT473K2JO0	630VDC	473	0.047	19.0	8.0	0.6
MPT683K2JO0	630VDC	683	0.068	19.0	9.5	0.6
MPT104K2JO0	630VDC	104	0.1	19.0	10.5	0.8
MPT224K2JR0	630VDC	224	0.22	25.0	12.5	0.8
MPT334K2JR0	630VDC	334	0.33	25.0	12.5	0.8
MPT474K2JS0	630VDC	474	0.47	31.0	11.5	0.8
MPT684K2JS0	630VDC	684	0.68	31.0	14.0	0.8
MPT105K2JS0	630VDC	105	1.0	31.0	16.0	0.8

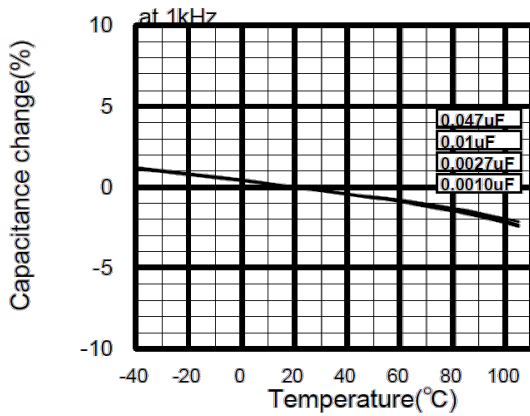


11. CHARACTERISTIC CURVE

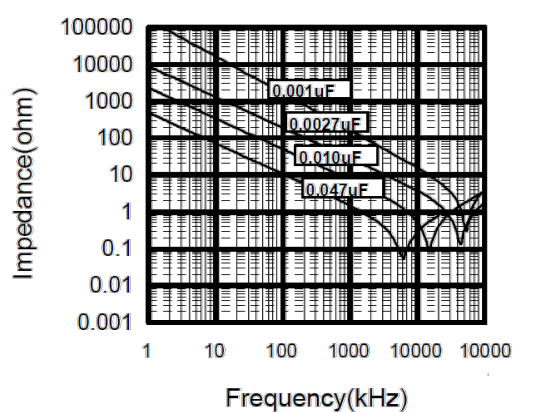
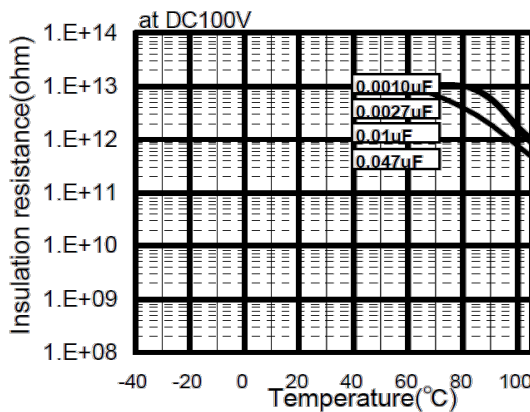
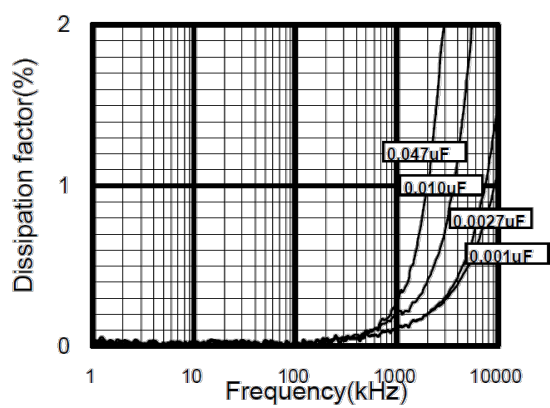
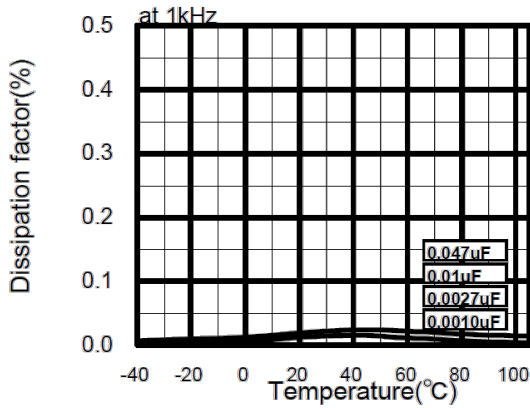
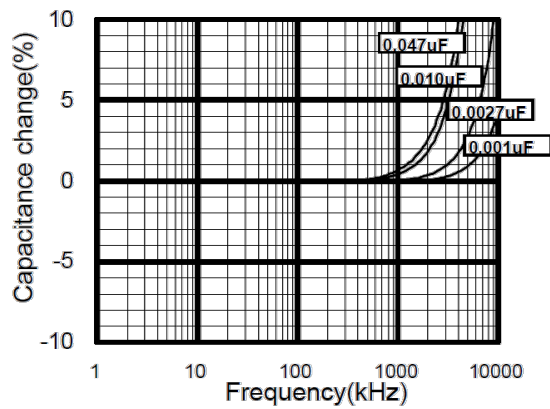
MPT Type 630VDC series (Metallized Polypropylene Film)

Electrical Characteristics

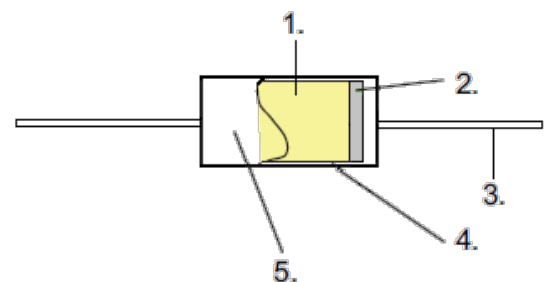
Temperature Characteristics



Frequency Characteristics



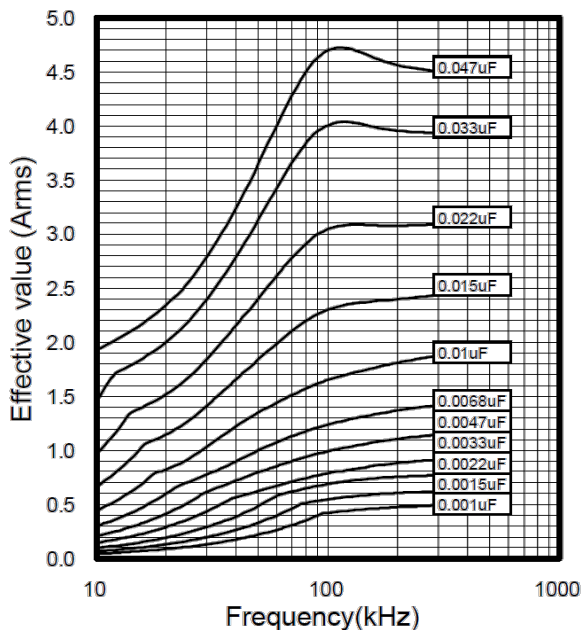
1.	DIELECTRIC	Metallized Polypropylene Film
2.	METAL SPRAY	Special Solder
3.	LEAD WIRE	Copper-clad Steel Wire
4.	INNER COATION	Inner Coating
5.	Insulating tape	Epoxy Resin



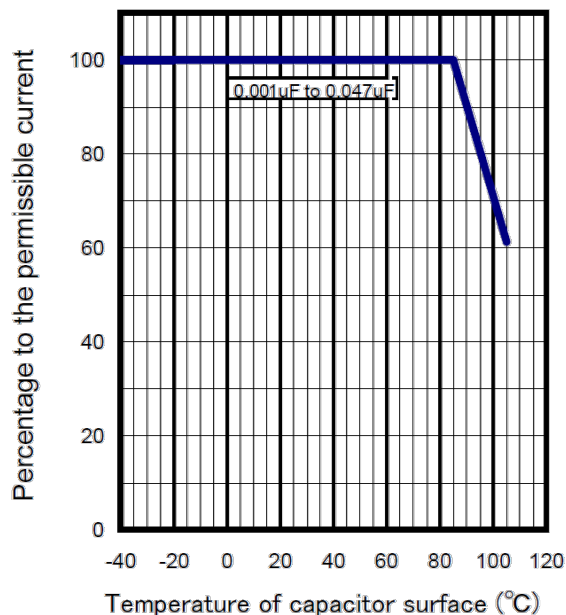
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Applicable Specifications

Permissible Current



Permissible Current Derating by Temperature



Pulse Handling Capability (dv/dt)
(Max 10000cycles)

Rated Voltage	Capacitance (μF)	Code	dV/dt (V/μs)	Current (A0-P)
DC 630V	0.0010	102	2000	2.0
	0.0015	152		3.0
	0.0022	222		4.4
	0.0033	332		6.6
	0.0047	472		9.4
	0.0068	682		13.6
	0.010	103		20.0
	0.015	153		30.0
	0.022	223		44.0
	0.033	333		66.0
	0.047	473		94.0
	0.068	683		94.0
1.00	105	131.0		

Voltage Derating by Temperature

