

POLYESTER FILM CAPACITOR

M/C TYPE

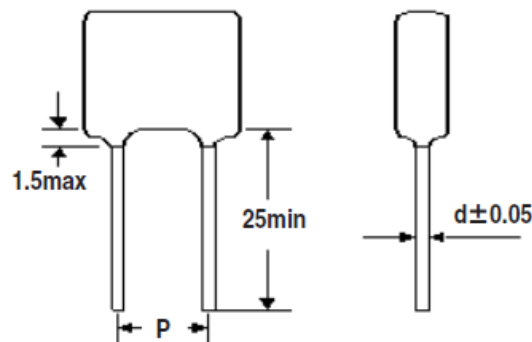
INTRODUCTION

M/C Type is made by inductively wound with polyester film dielectric and aluminum foil as the electrode with copper-clad steel leads and epoxy resin coated. They are suitable for blocking, bypassing and coupling in timing circuits and filters. They are ideal for the application in TV, Radio, Tape-recorder, stereo and other consumer electronic equipments.

FEATURES

- High moisture resistance.
- Good solderability.
- Available on tape and reel for automatic insertion.
- ESR. can be minimized.
- Capacitance : 1nF ~ 0.47uF (470nF)
- Capacitance tolerance : $\pm 5\%$ (J), $\pm 10\%$ (K), $\pm 20\%$ (M).

DIMENSIONS



Unit : nF

VOLTAGE	PITCH ($\pm 1\text{MM}$)							
	3.5	4	5	6	7.5	8	9.5	10
100VDC	1-8.2	4.7-15	1-33	33-82	47-180	220-270	330-470	270-470
250VDC	1-4.7	4.7-10	5.6-22	18-82	56-68	82-100	—	—
400VDC	—	1-3.9	4.7-10	2.7-6.8	8.2-56	68-82	27-100	—
630VDC	—	1-3.9	4.7-10	15-22	27-56	68-82	100	—

** The Lead diameter is 0.5mm or 0.6mm

CHARACTERISTICS

TEST	SPECIFICATIONS
OPERATING TEMPERATURE	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
COATING	Epoxy resin (Color : dark green)
TEST VOLTAGE	R.V. $\times 150\%$ for 1 minute. at 25°C
INSULATION RESISTANCE	Capacitance $\leq 0.1\mu\text{F}$ more than 10,000 M Ω Capacitance $> 0.1\mu\text{F}$ more than 3,500 M $\Omega \times \mu\text{F}$
DISSIPATION FACTOR	1% max. at 1KHz 25°C
DRY HEAT RESISTANCE	$+85^{\circ}\text{C}$ capacitance drift within $+5\% - 0\%$.
LOW TEMPERATURE RESISTANCE	-40°C capacitance drift within $+0\% - 8\%$.
MOISTURE-PROOF LOAD LIFE TEST	Temperature and humidity $+60^{\circ}\text{C}$, 90~95% R.H., add W.V. for 500 hours. Capacitance drift within $\pm 8\%$. Dissipation factor : $< 1.1\%$. Insulation resistance : over 30% of initial value.
HIGH TEMPERATURE LOAD LIFE TEST	Add 140% of W.V. 85°C in chamber for 1000 hours. Capacitance drift within $\pm 3\%$. Dissipation factor : $< 1.1\%$. Insulation resistance : over 10% of initial value.