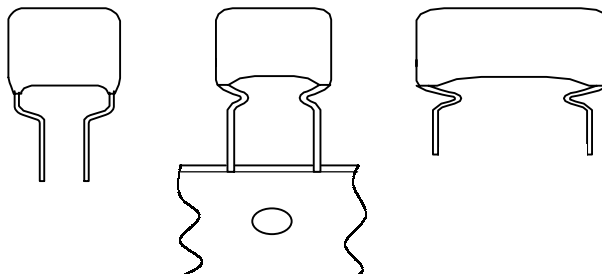


Metallized Polypropylene film capacitors

MPP(MKP) RADIAL LACQUERED CAPACITORS (Dipped Type)

Pitch 10.0/15.0/22.5/27.5 mm



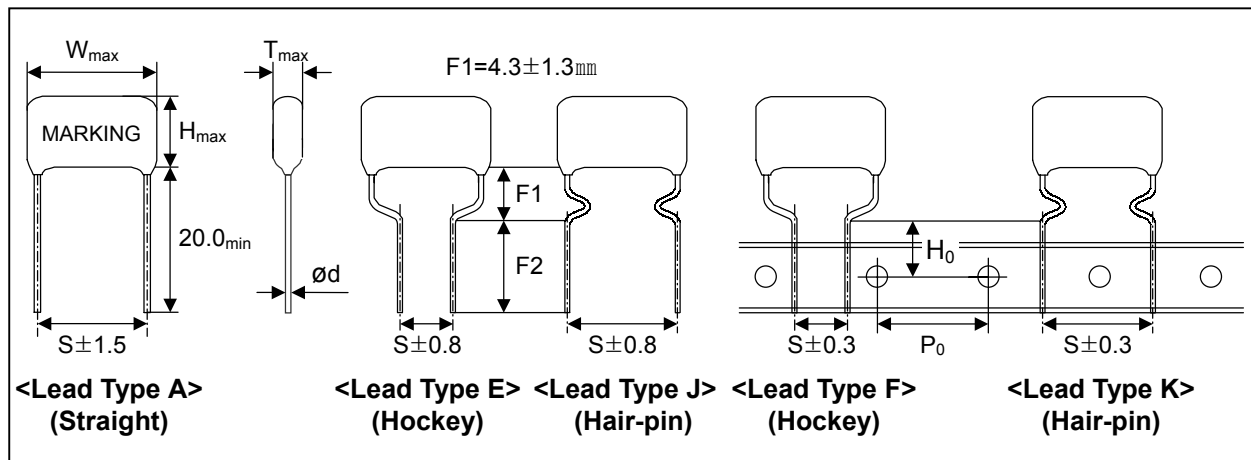
QUICK REFERENCE DATA

Capacitance range (E12 series)	0.047 to 2.2 μ F
Capacitance tolerance	\pm 20%, \pm 10%, \pm 5%
Rated voltage (DC)	250 V, 400 V, 630 V
Climatic category	40/085/21
Rated temperature	85 $^{\circ}$ C
Reference specification	IEC 60384-17

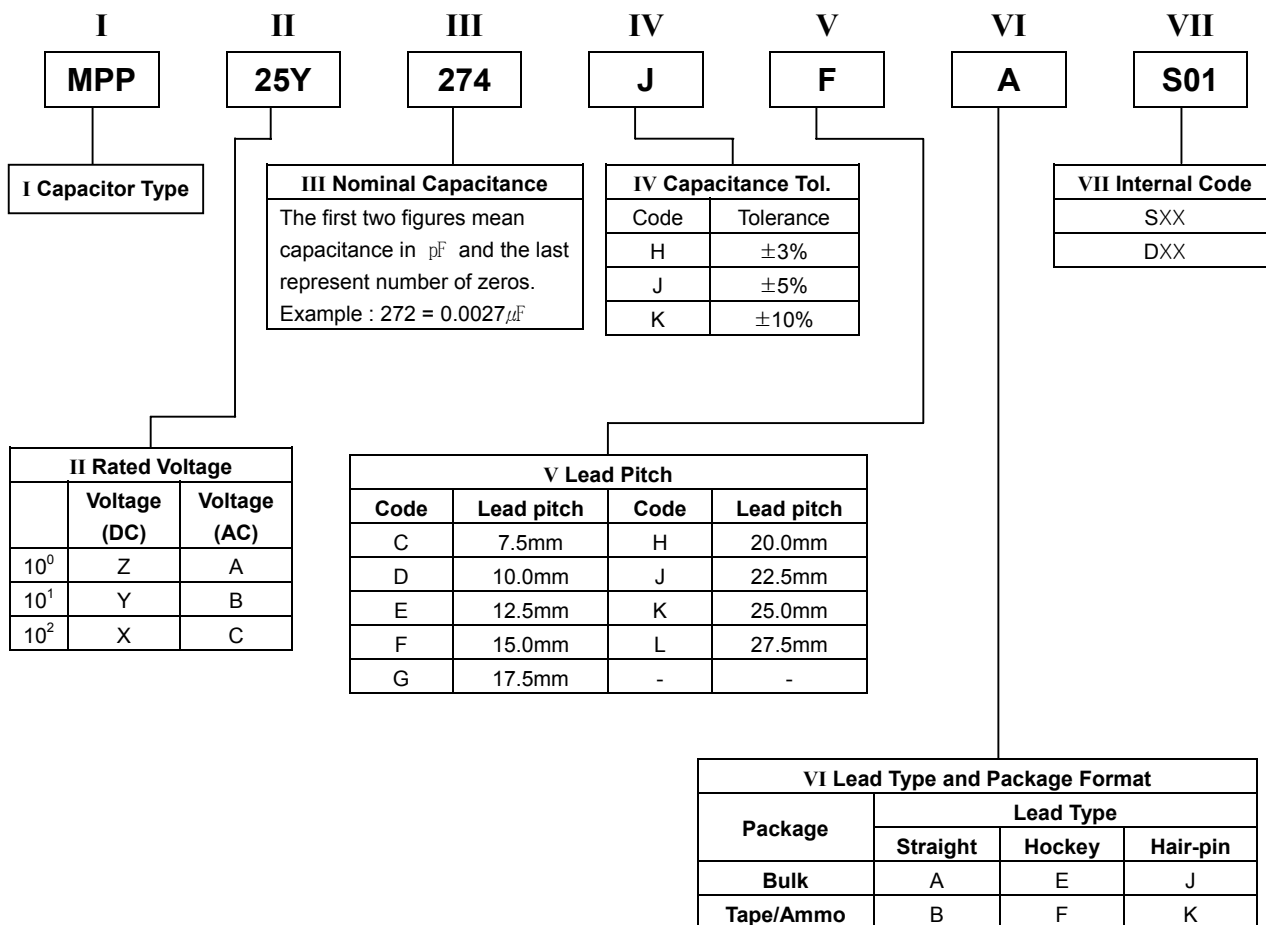
FEATURES <ul style="list-style-type: none"> . Non-inductive . Self-healing properties . Compact size . Low dissipation factor . Low ESR . Excellent stability . Outstanding electrical properties . Built for high frequency CDI or similar circuits . 10mm to 27.5mm lead pitch . Cell coated with flame resisting epoxy lacquer . Supplied loose in box and ammopack 	APPLICATIONS <ul style="list-style-type: none"> . Timing and integrated circuits . Close tolerance applications . High frequency & high current applications . Snubbers . Power circuits . S-correction in television or monitor displays
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Metallized Polypropylene film capacitors

Ordering Information



Part numbers and codes below are based on a seven category identification system and are represented by Roman numerals I thru VII

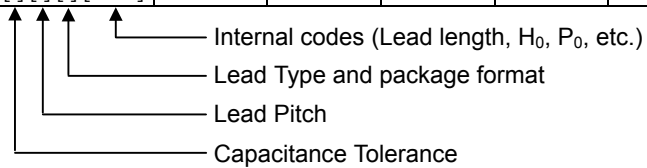


Metallized Polypropylene film capacitors

 $V_{Rdc} = 250 V$

unit: mm

Part Number	Cap (μF)	Dimensions						
		W max	H max	T max	Lead Pitch			\emptyset
					Lead Type A	Lead Type E	Lead Type J	
MPP25Y104[][][][***]	0.10	19.0	14.5	6.5	15.0	10.0	15.0	0.8
MPP25Y124[][][][***]	0.12	"	15.0	7.0	"	"	"	"
MPP25Y154[][][][***]	0.15	"	16.0	7.5	"	"	"	"
MPP25Y184[][][][***]	0.18	"	16.5	8.0	"	"	"	"
MPP25Y224[][][][***]	0.22	"	17.0	9.0	"	"	"	"
MPP25Y274[][][][***]	0.27	"	18.0	9.5	"	"	"	"
MPP25Y334[][][][***]	0.33	"	18.5	10.5	"	"	"	"
MPP25Y394[][][][***]	0.39	26.0	18.0	9.5	22.5	15.0	22.5	"
MPP25Y474[][][][***]	0.47	"	18.5	10.0	"	"	"	"
MPP25Y564[][][][***]	0.56	"	19.0	11.0	"	"	"	"
MPP25Y684[][][][***]	0.68	"	20.5	12.0	"	"	"	"
MPP25Y824[][][][***]	0.82	"	21.5	13.0	"	"	"	"
MPP25Y105[][][][***]	1.0	"	23.0	14.0	"	"	"	"
MPP25Y125[][][][***]	1.2	"	24.0	15.5	"	"	"	"
MPP25Y155[][][][***]	1.5	31.0	24.5	16.0	27.5	22.5	27.5	"
MPP25Y185[][][][***]	1.8	"	26.0	17.5	"	"	"	"
MPP25Y225[][][][***]	2.2	"	27.5	19.5	"	"	"	1.0

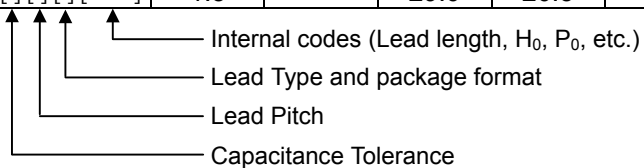


Metallized Polypropylene film capacitors

 $V_{Rdc} = 400 V$

unit: mm

Part Number	Cap (μF)	Dimensions						
		W max	H max	T max	Lead Pitch			\emptyset
					Lead Type A	Lead Type E	Lead Type J	
MPP40Y823[][][][***]	0.082	19.0	15.5	7.0	15.0	10.0	15.0	0.8
MPP40Y104[][][][***]	0.10	"	16.0	8.0	"	"	"	"
MPP40Y124[][][][***]	0.12	"	17.0	8.5	"	"	"	"
MPP40Y154[][][][***]	0.15	"	17.5	9.5	"	"	"	"
MPP40Y184[][][][***]	0.18	26.0	17.0	8.5	22.5	15.0	22.5	"
MPP40Y224[][][][***]	0.22	"	17.5	9.5	"	"	"	"
MPP40Y274[][][][***]	0.27	"	18.5	10.0	"	"	"	"
MPP40Y334[][][][***]	0.33	"	19.5	11.0	"	"	"	"
MPP40Y394[][][][***]	0.39	"	20.0	12.0	"	"	"	"
MPP40Y474[][][][***]	0.47	"	21.5	13.0	"	"	"	"
MPP40Y564[][][][***]	0.56	"	22.5	14.0	"	"	"	"
MPP40Y684[][][][***]	0.68	"	24.0	15.5	"	"	"	"
MPP40Y824[][][][***]	0.82	"	25.0	17.0	"	"	"	"
MPP40Y105[][][][***]	1.0	31.0	25.0	17.0	27.5	22.5	27.5	1.0
MPP40Y125[][][][***]	1.2	"	27.0	18.5	"	"	"	"
MPP40Y155[][][][***]	1.5	"	29.0	20.5	"	"	"	"

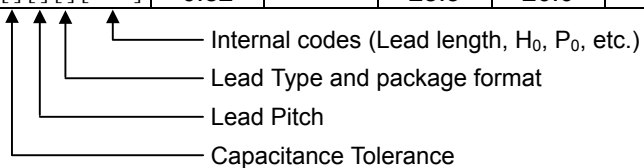


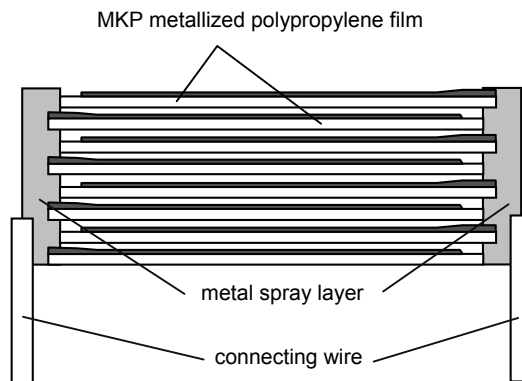
Metallized Polypropylene film capacitors

 $V_{Rdc} = 630 V$

unit: mm

Part Number	Cap (μF)	Dimensions						
		W max	H max	T max	Lead Pitch			\emptyset
					Lead Type A	Lead Type E	Lead Type J	
MPP63Y473[][][][***]	0.047	19.0	15.5	7.0	15.0	7.5/10.0	15.0	0.8
MPP63Y563[][][][***]	0.056	"	16.0	8.0	"	"	"	"
MPP63Y683[][][][***]	0.068	"	17.0	8.5	"	"	"	"
MPP63Y823[][][][***]	0.082	"	17.5	9.5	"	"	"	"
MPP63Y104[][][][***]	0.10	26.0	16.5	8.5	22.5	15.0	22.5	"
MPP63Y124[][][][***]	0.12	"	17.5	9.0	"	"	"	"
MPP63Y154[][][][***]	0.15	"	18.5	10.0	"	"	"	"
MPP63Y184[][][][***]	0.18	"	19.0	11.0	"	"	"	"
MPP63Y224[][][][***]	0.22	"	20.5	12.0	"	"	"	"
MPP63Y274[][][][***]	0.27	"	21.5	13.0	"	"	"	"
MPP63Y334[][][][***]	0.33	"	22.5	14.5	"	"	"	"
MPP63Y394[][][][***]	0.39	"	24.0	16.0	"	"	"	"
MPP63Y474[][][][***]	0.47	31.0	24.0	15.5	27.5	20.0	27.5	"
MPP63Y564[][][][***]	0.56	"	25.5	17.5	"	"	"	"
MPP63Y684[][][][***]	0.68	"	27.0	19.0	"	"	"	"
MPP63Y824[][][][***]	0.82	"	28.5	20.0	"	"	"	"



Metallized Polypropylene film capacitors**CONSTRUCTION**

Description ;

- . Electrode: Metallized film
- . Dielectric: Polypropylene film
- . Flame retardant epoxy-dipped coating (UL 94V-0)
- . Radial leads, tin-coated

MOUNTING**NORMAL USE**

The capacitors are designed for mounting on printed-circuit boards. The capacitors packed in bandoliers are designed for mounting on printed-circuit boards by means of automatic insertion machines.

SPECIFIC METHOD OF MOUNTING TO WITHSTAND VIBRATION AND SHOCK

- . For pitches of 15 mm the capacitors shall be mechanically fixed by the leads
- . For larger pitches the capacitors shall be mounted in the same way and the body clamped.

STORAGE TEMPERATURE

- . Storage temperature : $T_{stg} = -25$ to $+40^{\circ}\text{C}$ with RH maximum 80% without condensation.

RATINGS AND CHARACTERISTICS

Unless otherwise specified all electrical values apply at an ambient temperature of $23 \pm 1^{\circ}\text{C}$, an atmospheric pressure of 86 to 106kPa and a relative humidity of $50 \pm 2\%$.

For reference testing a conditioning period shall be applied of 96 ± 4 hours by heating the products in a circulating air oven at the rated temperature and a relative humidity not exceeding 20%.

Metallized Polypropylene film capacitors**CHARACTERISTICS****● Test Voltage**

. Test Voltage (between leads) : $1.5 \times V_{Rdc}$, 1min or $1.75 \times V_{Rdc}$, 5s

. Test Voltage (between leads and case) : $2500V_{ac}$, 5s

● Dissipation Factor

. Dissipation factor: When sine wave AC is applied at 1KHz ± 200 Hz and $5V_{rms}$,

$$DF < 10 \times 10^{-4} \quad \text{when} \quad C \leq 1.0 \mu F$$

$$DF < 20 \times 10^{-4} \quad \text{when} \quad C > 1.0 \mu F$$

● Insulation Resistance

. The insulation resistance is measured for 1min ± 5 s, at $100V_{dc}$ (lead to lead)

$$R_{ins} > 9000M\Omega \quad \text{when} \quad C \leq 1.0 \mu F$$

$$R_{ins} > 3000M\Omega \quad \text{when} \quad C > 1.0 \mu F$$

● Capacitance

. Capacitance : Within specified tolerance range when sine wave AC is applied

at 1kHz ± 200 Hz and $5V_{rms}$

PRODUCT MARKING

The capacitors are marked on the side in black ink with the following information :

- . Manufacturer`s mark
- . Rated capacitance in code according to IEC 60062
- . Tolerance on rated capacitance (J : $\pm 5\%$)
- . Rated DC voltage
- . Date code
- . Manufacturer's type designation (MPP)

Example of marking

K 154J	630
X30235	MPP