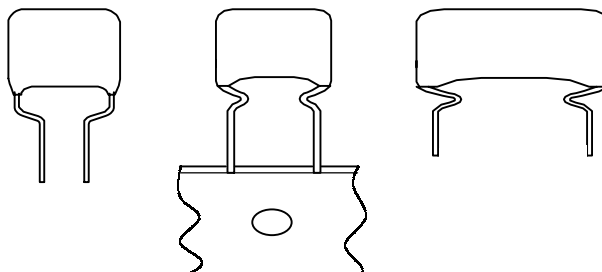


AC and Pulse Metallized Polypropylene film capacitors

BUP
MEPP(KP/MMKP) RADIAL LACQUERED CAPACITORS (Dipped Type)

Pitch 7.5/10.0/15.0/17.5/20.0/25.0/30.0/35.0 mm

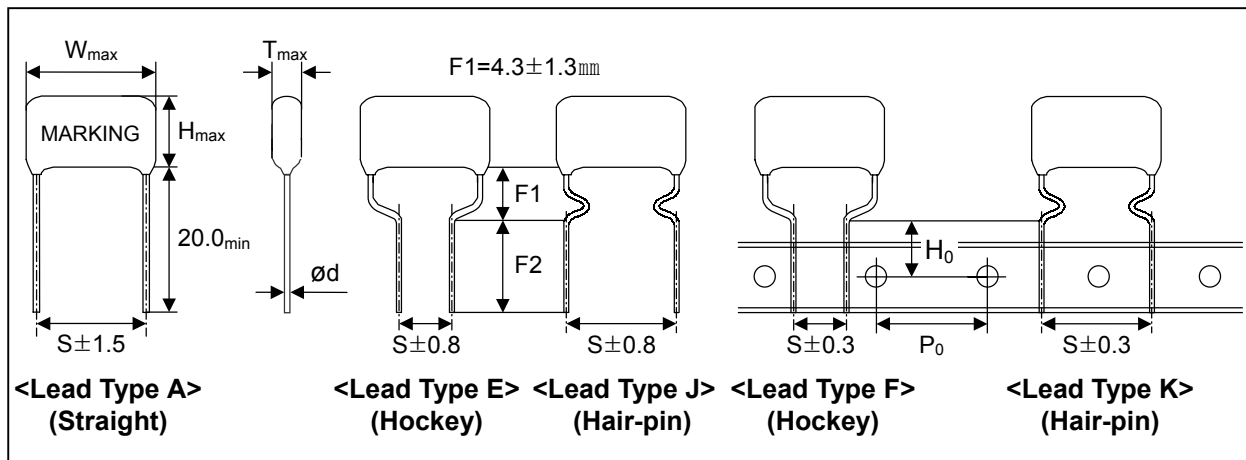

QUICK REFERENCE DATA

Capacitance range (E12 series)	0.001 to 0.22 μ F
Capacitance tolerance	\pm 20%, \pm 10%, \pm 5%, \pm 3%
Rated voltage (DC)	800 V, 1000 V, 1250 V, 1600 V, 2000 V, 2500 V
Climatic category	40/085/21
Rated temperature	85 $^{\circ}$ C
Reference specification	IEC 60384-17

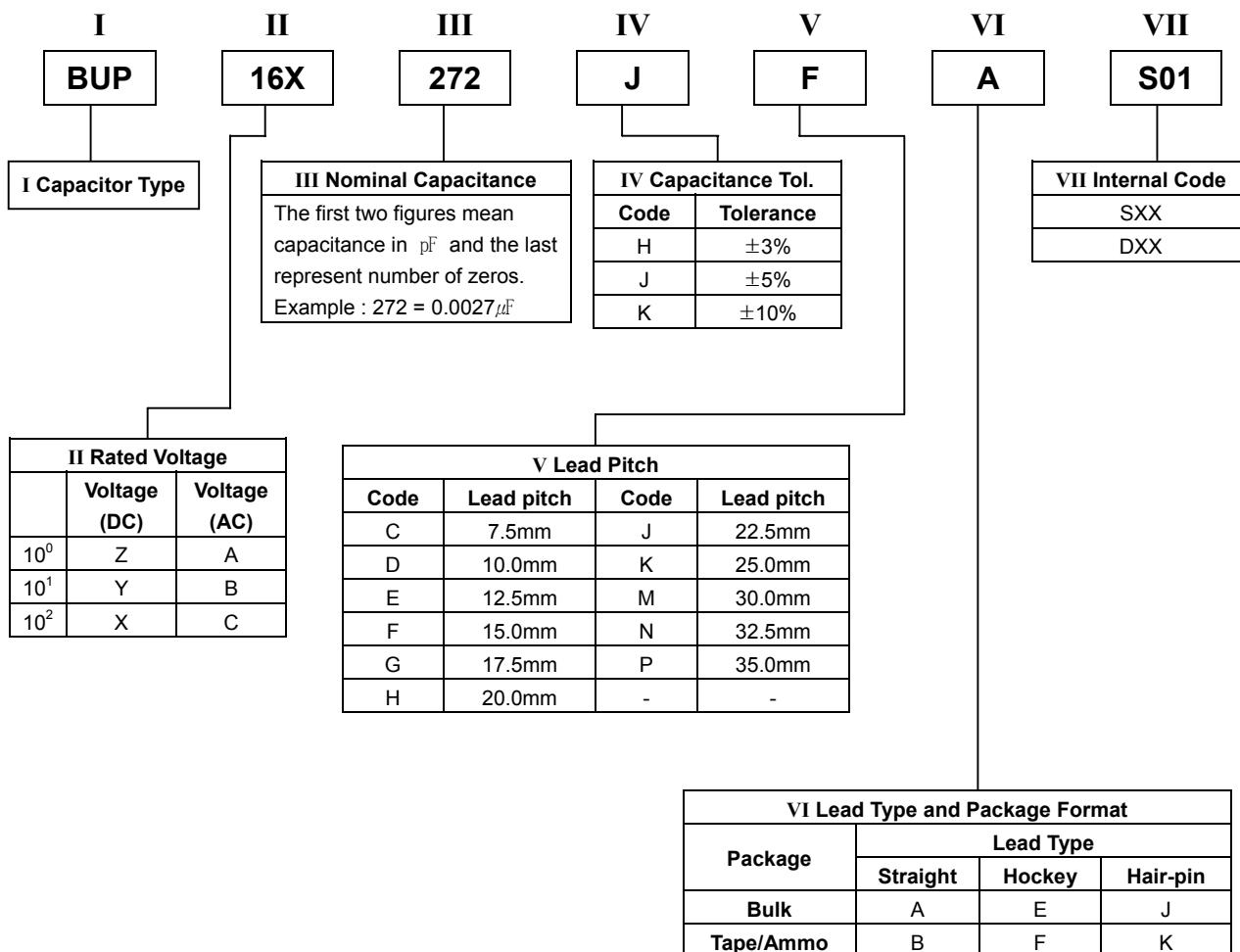
FEATURES <ul style="list-style-type: none"> . Non-inductive . Dual capacitor design . Internal series construction . Ideal for high frequency and high pulse applications . Low dielectric losses . Compact size . Low dissipation factor . Low ESR . Excellent stability . 7.5mm to 35mm lead pitch . Cell coated with flame resisting epoxy lacquer . Supplied loose in box, and ammpack 	APPLICATIONS <ul style="list-style-type: none"> . Timing and integrated circuits . Close tolerance applications . High frequency applications . Resonance applications . Horizontal circuits . Retrace circuits . AC power applications for TV & monitors and similar usages
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AC and Pulse 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



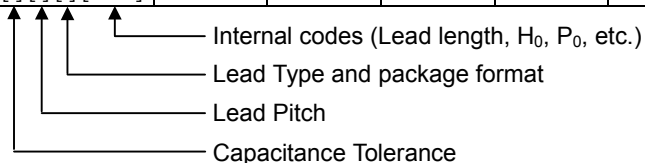
**AC and Pulse
Metallized Polypropylene film capacitors**

BUP

$V_{Rdc} = 800 V$

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	
BUP80Y102[][][][***]	0.0010	20.0	10.0	6.0	15.0	7.5/10.0	15.0	0.8
BUP80Y122[][][][***]	0.0012	"	"	"	"	"	"	"
BUP80Y152[][][][***]	0.0015	"	"	"	"	"	"	"
BUP80Y182[][][][***]	0.0018	"	"	"	"	"	"	"
BUP80Y222[][][][***]	0.0022	"	10.5	6.5	"	"	"	"
BUP80Y272[][][][***]	0.0027	"	"	"	"	"	"	"
BUP80Y332[][][][***]	0.0033	"	11.0	7.0	"	"	"	"
BUP80Y392[][][][***]	0.0039	"	11.5	"	"	"	"	"
BUP80Y472[][][][***]	0.0047	"	12.5	7.5	"	"	"	"
BUP80Y562[][][][***]	0.0056	"	13.0	7.5	"	"	"	"
BUP80Y682[][][][***]	0.0068	"	13.5	8.5	"	"	"	"
BUP80Y822[][][][***]	0.0082	"	14.0	9.0	"	"	"	"
BUP80Y103[][][][***]	0.010	"	15.0	10.0	"	"	"	"
BUP80Y123[][][][***]	0.012	23.0	16.0	10.5	17.5	7.5/10.0	17.5	"
BUP80Y153[][][][***]	0.015	"	17.0	11.5	"	"	"	"
BUP80Y183[][][][***]	0.018	"	17.5	12.5	"	"	"	"
BUP80Y223[][][][***]	0.022	"	15.0	8.5	"	"	"	"
BUP80Y273[][][][***]	0.027	"	16.0	9.0	"	"	"	"
BUP80Y333[][][][***]	0.033	"	16.5	9.5	"	"	"	"
BUP80Y393[][][][***]	0.039	"	17.5	10.5	"	"	"	"
BUP80Y473[][][][***]	0.047	"	18.0	11.5	"	"	"	"
BUP80Y563[][][][***]	0.056	"	19.0	12.5	"	"	"	"
BUP80Y683[][][][***]	0.068	"	20.5	13.5	"	"	"	"
BUP80Y823[][][][***]	0.082	"	22.0	15.0	"	"	"	"
BUP80Y104[][][][***]	0.10	40.0	20.5	12.5	35.0	30.0	35.0	"
BUP80Y124[][][][***]	0.12	"	21.5	14.0	"	"	"	"
BUP80Y154[][][][***]	0.15	"	23.0	15.5	"	"	"	1.0
BUP80Y184[][][][***]	0.18	"	24.5	17.0	"	"	"	"
BUP80Y224[][][][***]	0.22	"	26.5	18.5	"	"	"	"

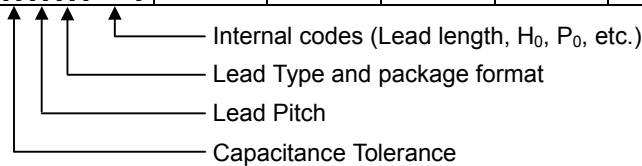


AC and Pulse Metallized Polypropylene film capacitors

 $V_{Rdc} = 1000 V$

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	
BUP10X102[][][][***]	0.0010	23.0	11.0	6.0	17.5	7.5/10.0	17.5	0.8
BUP10X122[][][][***]	0.0012	"	"	"	"	"	"	"
BUP10X152[][][][***]	0.0015	"	"	"	"	"	"	"
BUP10X182[][][][***]	0.0018	"	"	"	"	"	"	"
BUP10X222[][][][***]	0.0022	"	11.5	6.5	"	"	"	"
BUP10X272[][][][***]	0.0027	"	12.5	7.0	"	"	"	"
BUP10X332[][][][***]	0.0033	"	13.5	7.0	"	"	"	"
BUP10X392[][][][***]	0.0039	"	14.0	7.5	"	"	"	"
BUP10X472[][][][***]	0.0047	"	14.5	8.0	"	"	"	"
BUP10X562[][][][***]	0.0056	"	15.0	9.0	"	"	"	"
BUP10X682[][][][***]	0.0068	28.5	14.0	8.0	25.0	20.0	25.0	"
BUP10X822[][][][***]	0.0082	"	14.5	8.0	"	"	"	"
BUP10X103[][][][***]	0.010	"	15.0	8.5	"	"	"	"
BUP10X123[][][][***]	0.012	"	15.5	9.0	"	"	"	"
BUP10X153[][][][***]	0.015	"	16.0	9.5	"	"	"	"
BUP10X183[][][][***]	0.018	"	17.0	10.0	"	"	"	"
BUP10X223[][][][***]	0.022	"	18.0	11.0	"	"	"	"
BUP10X273[][][][***]	0.027	"	19.0	12.0	"	"	"	"
BUP10X333[][][][***]	0.033	"	20.0	13.0	"	"	"	"
BUP10X393[][][][***]	0.039	"	21.0	14.0	"	"	"	"
BUP10X473[][][][***]	0.047	40.0	19.0	12.0	35.0	30.0	35.0	"
BUP10X563[][][][***]	0.056	"	20.0	13.0	"	"	"	"
BUP10X683[][][][***]	0.068	"	21.0	14.0	"	"	"	"
BUP10X823[][][][***]	0.082	"	23.0	15.0	"	"	"	"
BUP10X104[][][][***]	0.10	"	24.0	16.5	"	"	"	1.0
BUP10X124[][][][***]	0.12	"	25.0	18.0	"	"	"	"
BUP10X154[][][][***]	0.15	"	26.5	20.0	"	"	"	"

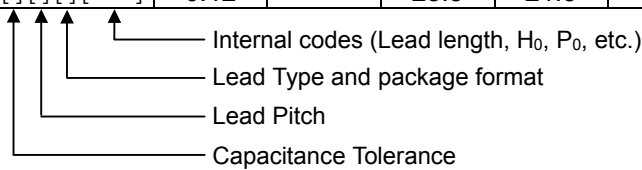


AC and Pulse Metallized Polypropylene film capacitors

BUP
 $V_{Rdc} = 1250 \text{ V}$

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	
BUP12X102[][][][***]	0.0010	20.0	11.0	6.0	15.0	10.0	15.0	0.8
BUP12X122[][][][***]	0.0012	"	11.5	"	"	"	"	"
BUP12X152[][][][***]	0.0015	"	"	"	"	"	"	"
BUP12X182[][][][***]	0.0018	23.0	12.5	7.0	17.5	10.0	17.5	"
BUP12X222[][][][***]	0.0022	"	"	"	"	"	"	"
BUP12X272[][][][***]	0.0027	"	13.0	7.5	"	"	"	"
BUP12X332[][][][***]	0.0033	"	13.5	8.0	"	"	"	"
BUP12X392[][][][***]	0.0039	"	14.0	8.5	"	"	"	"
BUP12X472[][][][***]	0.0047	28.5	13.5	7.0	25.0	20.0	25.0	"
BUP12X562[][][][***]	0.0056	"	14.0	7.5	"	"	"	"
BUP12X682[][][][***]	0.0068	"	14.5	8.0	"	"	"	"
BUP12X822[][][][***]	0.0082	"	15.5	8.0	"	"	"	"
BUP12X103[][][][***]	0.010	"	16.0	8.5	"	"	"	"
BUP12X123[][][][***]	0.012	"	16.5	9.5	"	"	"	"
BUP12X153[][][][***]	0.015	"	17.5	10.0	"	"	"	"
BUP12X183[][][][***]	0.018	"	18.5	11.0	"	"	"	"
BUP12X223[][][][***]	0.022	"	19.5	12.0	"	"	"	"
BUP12X273[][][][***]	0.027	"	21.0	13.5	"	"	"	"
BUP12X333[][][][***]	0.033	40.0	19.5	12.5	35.0	30.0	35.0	"
BUP12X393[][][][***]	0.039	"	20.0	13.0	"	"	"	"
BUP12X473[][][][***]	0.047	"	21.5	14.0	"	"	"	"
BUP12X563[][][][***]	0.056	"	23.0	15.0	"	"	"	"
BUP12X683[][][][***]	0.068	"	24.0	16.5	"	"	"	1.0
BUP12X823[][][][***]	0.082	"	25.0	18.0	"	"	"	"
BUP12X104[][][][***]	0.10	"	26.5	19.5	"	"	"	"
BUP12X124[][][][***]	0.12	"	28.5	21.5	"	"	"	"

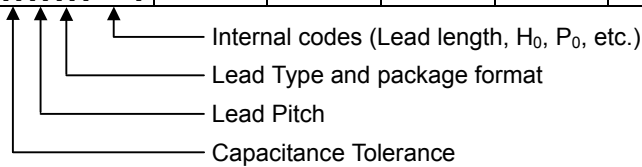


AC and Pulse Metallized Polypropylene film capacitors

BUP
 $V_{Rdc} = 1600 \text{ V}$

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	
BUP16X102[][][][***]	0.0010	23.0	12.0	7.0	17.5	7.5/10.0	17.5	0.8
BUP16X122[][][][***]	0.0012	"	13.0	7.5	"	"	"	"
BUP16X152[][][][***]	0.0015	"	14.0	8.0	"	"	"	"
BUP16X182[][][][***]	0.0018	"	15.0	8.5	"	"	"	"
BUP16X222[][][][***]	0.0022	"	16.0	9.0	"	"	"	"
BUP16X272[][][][***]	0.0027	"	17.0	9.5	"	"	"	"
BUP16X332[][][][***]	0.0033	28.5	13.0	7.5	25.0	20.0	25.0	"
BUP16X392[][][][***]	0.0039	"	13.5	8.0	"	"	"	"
BUP16X472[][][][***]	0.0047	"	15.0	8.0	"	"	"	"
BUP16X562[][][][***]	0.0056	"	16.0	8.5	"	"	"	"
BUP16X682[][][][***]	0.0068	"	17.0	9.5	"	"	"	"
BUP16X822[][][][***]	0.0082	"	18.0	10.0	"	"	"	"
BUP16X103[][][][***]	0.010	"	18.5	11.0	"	"	"	"
BUP16X123[][][][***]	0.012	"	19.5	12.0	"	"	"	"
BUP16X153[][][][***]	0.015	"	20.5	13.0	"	"	"	"
BUP16X183[][][][***]	0.018	"	21.5	14.0	"	"	"	"
BUP16X223[][][][***]	0.022	40.0	19.5	12.0	35.0	30.0	35.0	"
BUP16X273[][][][***]	0.027	"	20.5	13.0	"	"	"	"
BUP16X333[][][][***]	0.033	"	21.5	13.5	"	"	"	"
BUP16X393[][][][***]	0.039	"	22.5	15.0	"	"	"	"
BUP16X473[][][][***]	0.047	"	24.5	17.0	"	"	"	1.0
BUP16X563[][][][***]	0.056	"	25.5	18.0	"	"	"	"
BUP16X683[][][][***]	0.068	"	27.0	20.0	"	"	"	"

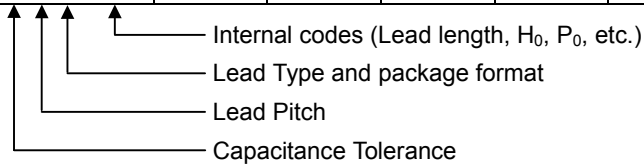


AC and Pulse Metallized Polypropylene film capacitors

BUP
 $V_{Rdc} = 2000 \text{ V}$

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	
BUP20X102[][][][***]	0.0010	23.0	12.5	7.5	17.5	7.5/10.0	17.5	0.8
BUP20X122[][][][***]	0.0012	"	13.0	8.0	"	"	"	"
BUP20X152[][][][***]	0.0015	"	14.0	8.5	"	"	"	"
BUP20X182[][][][***]	0.0018	28.5	12.5	7.0	25.0	20.0	25.0	"
BUP20X222[][][][***]	0.0022	"	13.0	"	"	"	"	"
BUP20X272[][][][***]	0.0027	"	13.5	8.5	"	"	"	"
BUP20X332[][][][***]	0.0033	"	14.5	9.0	"	"	"	"
BUP20X392[][][][***]	0.0039	"	15.0	9.5	"	"	"	"
BUP20X472[][][][***]	0.0047	"	16.5	10.0	"	"	"	"
BUP20X562[][][][***]	0.0056	"	17.5	"	"	"	"	"
BUP20X682[][][][***]	0.0068	"	18.5	10.5	"	"	"	"
BUP20X822[][][][***]	0.0082	"	19.0	11.0	"	"	"	"
BUP20X103[][][][***]	0.010	"	20.0	12.5	"	"	"	"
BUP20X123[][][][***]	0.012	40.0	19.0	11.0	35.0	30.0	35.0	"
BUP20X153[][][][***]	0.015	"	20.0	12.0	"	"	"	"
BUP20X183[][][][***]	0.018	"	21.0	13.0	"	"	"	"
BUP20X223[][][][***]	0.022	"	22.0	15.0	"	"	"	"
BUP20X273[][][][***]	0.027	"	23.0	16.0	"	"	"	1.0
BUP20X333[][][][***]	0.033	"	25.5	18.5	"	"	"	"
BUP20X393[][][][***]	0.039	"	28.5	20.5	"	"	"	"
BUP20X473[][][][***]	0.047	"	31.5	21.5	"	"	"	"

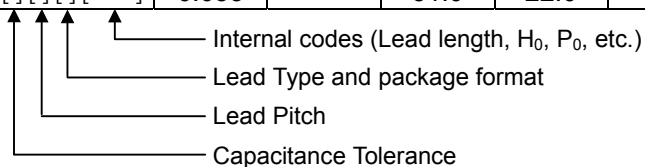


**AC and Pulse
Metallized Polypropylene film capacitors**

$V_{Rdc} = 2500\text{ V}$

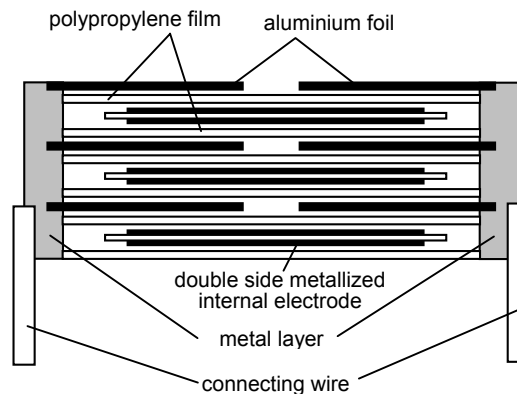
unit: mm

Part Number	Cap (μF)	Dimensions						
		W max	H max	T max	Lead Pitch			\emptyset
					Lead Type A	Lead Type E	Lead Type J	
BUP25X102[][][][***]	0.0010	23.0	13.5	8.5	17.5	7.5/10.0	17.5	0.8
BUP25X122[][][][***]	0.0012	"	14.5	9.5	"	"	"	"
BUP25X152[][][][***]	0.0015	"	16.5	10.5	"	"	"	"
BUP25X182[][][][***]	0.0018	"	17.0	11.0	"	"	"	"
BUP25X222[][][][***]	0.0022	28.5	14.0	8.5	25.0	20.0	25.0	"
BUP25X272[][][][***]	0.0027	"	15.5	9.5	"	"	"	"
BUP25X332[][][][***]	0.0033	"	17.0	10.0	"	"	"	"
BUP25X392[][][][***]	0.0039	"	17.5	10.5	"	"	"	"
BUP25X472[][][][***]	0.0047	"	18.5	11.0	"	"	"	"
BUP25X562[][][][***]	0.0056	"	19.0	11.5	"	"	"	"
BUP25X682[][][][***]	0.0068	"	20.5	13.0	"	"	"	"
BUP25X822[][][][***]	0.0082	"	21.0	14.0	"	"	"	"
BUP25X103[][][][***]	0.010	"	22.5	15.5	"	"	"	"
BUP25X123[][][][***]	0.012	"	23.5	17.0	"	"	"	"
BUP25X153[][][][***]	0.015	40.0	21.5	15.0	35.0	30.0	35.0	"
BUP25X183[][][][***]	0.018	"	23.0	16.0	"	"	"	1.0
BUP25X223[][][][***]	0.022	"	25.5	18.5	"	"	"	"
BUP25X273[][][][***]	0.027	"	29.0	21.0	"	"	"	"
BUP25X333[][][][***]	0.033	"	31.0	22.0	"	"	"	"



AC and Pulse Metallized Polypropylene film capacitors

CONSTRUCTION



Description ;

- . Electrode: Aluminum foil or double side 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%.

**AC and Pulse
Metallized Polypropylene film capacitors**

CHARACTERISTICS**● Test Voltage**

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

● Dissipation Factor

. Dissipation Factor : $DF < 10 \times 10^{-4}$ when sine wave AC is applied at 1kHz ± 200 Hz and $5V_{rms}$

● Insulation Resistance

. The insulation resistance is measured for 1min ± 5 s, at $250V_{dc}$ (lead to lead)

$$R_{ins} > 30000M\Omega$$

● Corona Start Voltage

. Corona Start Voltage : $500V_{rms}$ at 60 Hz

● 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 : ± 5 %)
- . Rated DC voltage
- . Date code
- . Manufacturer's type designation (MEPP)

Example of marking

K 183J 1000
X30235 MEPP