

# Metallized Polyester Film Capacitor Miniature Epoxy Coated

MPEM Series

MERITEK

## FEATURES

- Operating temperature: -40°C ~ +105°C
- Non-Inductive Wound Construction
- Low Loss at High Frequency
- Small Inherent Temperature Rise
- Flame Retardant Epoxy Resin Coating UL V-0



## PART NUMBERING SYSTEM

MPEM 103 J 2A A 5  
(1) (2) (3) (4) (5) (6)



No	item	Code	Description	Series Reference
(1)	Meritek Series	MPEM	Metallized Polyester Film Capacitor	Miniature Epoxy Coated Type
(2)	Capacitance	103	103: 0.01 $\mu$ F	First two digit: Significant, Third: Multiplier
(3)	Tolerance	J	J: $\pm$ 5%	-5% ~ +5%
(4)	Rated Voltage	2A	2A: 100VDC	DC Voltage Code
(6)	Packaging	A	A: Tape and Ammo	R: Tape and Reel, B: Bulk
(5)	Internal Code	5	5: 5mm Pitch	Internal Control or Project Reference

## ELECTRICAL CHARACTERISTICS

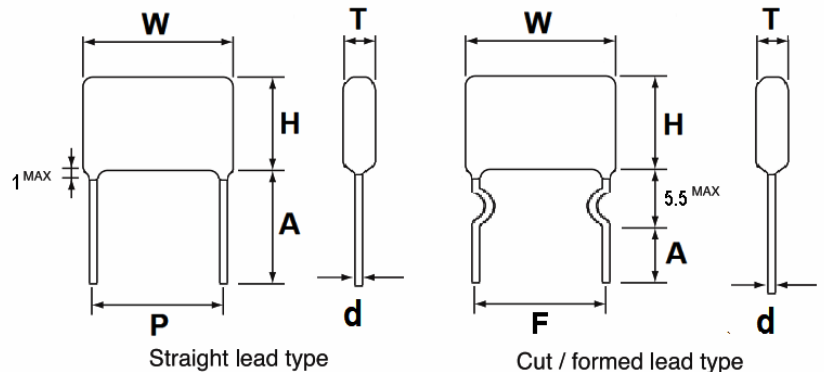
Item	Description		
Capacitance Range	0.001 ~ 1.0 $\mu$ F		
Capacitance Tolerance	$\pm$ 5%(J), $\pm$ 10%(K), $\pm$ 20%(M)		
Rated Voltage	63(1J), 100(2A), 250(2E) VDC		
Operating Temperature Range	-40°C~+105°C Derating ratio of rated voltage to +85 ~ +105°C : 1.25% per °C for rated voltage		
Dissipation Factor (tan $\delta$ )	$\leq$ 0.1% at +25°C, 1KHz		
Insulation Resistance- Between Terminals	100 $\pm$ 15VDC For 60 sec, at 25°C	C $\leq$ 0.33 $\mu$ F	$\geq$ 15,000M $\Omega$
		C > 0.33 $\mu$ F	$\geq$ 5,000S
Withstand Voltage- Between Terminals	1.5 x Rated Voltage for 60 sec.		

## DIMENSION

P (mm)	d (mm)
5.0	0.5

Note:

1. WxHxT (mm) See the table below
2. Standard lead length A: 15mm min.
3. Contact Meritek for other available options for lead forming (F)



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## DIMENSION

63VDC(40VAC)							100VDC (63VAC)						
Cap(μF)	%	W	H	T	P	d	Cap(μF)	%	W	H	T	P	d
0.0010	J,K,M	7.3	7.5	4.5	5.0	0.5	0.0010	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0015	J,K,M	7.3	7.5	4.5	5.0	0.5	0.0015	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0022	J,K,M	7.3	7.5	4.5	5.0	0.5	0.0022	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0033	J,K,M	7.3	7.5	4.5	5.0	0.5	0.0033	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0047	J,K,M	7.3	7.5	4.5	5.0	0.5	0.0047	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0068	J,K,M	7.3	7.5	4.5	5.0	0.5	0.0068	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0082	J,K,M	7.3	7.5	4.5	5.0	0.5	0.0082	J,K,M	7.3	7.5	4.5	5.0	0.5
0.010	J,K,M	7.3	7.5	4.5	5.0	0.5	0.010	J,K,M	7.3	7.5	4.5	5.0	0.5
0.015	J,K,M	7.3	8.0	5.0	5.0	0.5	0.015	J,K,M	7.3	8.0	5.0	5.0	0.5
0.022	J,K,M	7.3	8.0	5.0	5.0	0.5	0.022	J,K,M	7.3	8.0	5.0	5.0	0.5
0.033	J,K,M	7.3	8.0	4.5	5.0	0.5	0.033	J,K,M	7.3	8.0	4.5	5.0	0.5
0.047	J,K,M	7.3	7.5	4.5	5.0	0.5	0.047	J,K,M	7.3	7.5	4.5	5.0	0.5
0.068	J,K,M	7.3	7.5	4.5	5.0	0.5	0.068	J,K,M	7.3	7.5	4.5	5.0	0.5
0.082	J,K,M	7.3	8.0	5.0	5.0	0.5	0.082	J,K,M	7.3	8.0	5.0	5.0	0.5
0.10	J,K,M	7.3	8.5	5.5	5.0	0.5	0.10	J,K,M	7.3	8.5	5.5	5.0	0.5
0.15	J,K,M	7.3	9.0	5.5	5.0	0.5	0.15	J,K,M	7.3	9.0	5.5	5.0	0.5
0.22	J,K,M	7.3	9.0	5.5	5.0	0.5	0.22	J,K,M	7.3	9.0	5.5	5.0	0.5
0.33	J,K,M	7.3	9.0	5.5	5.0	0.5	0.33	J,K,M	7.3	9.0	5.5	5.0	0.5
0.39	J,K,M	7.3	9.0	5.5	5.0	0.5	0.39	J,K,M	7.3	9.0	5.5	5.0	0.5
0.47	J,K,M	7.3	9.5	6.0	5.0	0.5	0.47	J,K,M	7.3	9.5	6.0	5.0	0.5
0.68	J,K,M	7.3	10.0	6.5	5.0	0.5	0.68	J,K,M	7.3	10.0	6.5	5.0	0.5
0.82	J,K,M	7.3	11.0	7.0	5.0	0.5	0.82	J,K,M	7.3	11.0	7.0	5.0	0.5
1.0	J,K,M	7.3	12.0	7.5	5.0	0.5	1.0	J,K,M	7.3	12.0	7.5	5.0	0.5

Unit: mm

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## DIMENSION

250VDC (140VAC)						
Cap( $\mu$ F)	%	W	H	T	P	d
0.0010	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0015	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0022	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0033	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0047	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0068	J,K,M	7.3	7.5	4.5	5.0	0.5
0.0082	J,K,M	7.3	7.5	4.5	5.0	0.5
0.010	J,K,M	7.3	7.5	4.5	5.0	0.5
0.015	J,K,M	7.3	8.0	5.0	5.0	0.5
0.022	J,K,M	7.3	8.0	5.0	5.0	0.5
0.033	J,K,M	7.3	8.0	4.5	5.0	0.5
0.047	J,K,M	7.3	8.0	4.5	5.0	0.5
0.068	J,K,M	7.3	8.5	5.0	5.0	0.5
0.082	J,K,M	7.3	9.0	6.0	5.0	0.5
0.10	J,K,M	7.3	9.5	6.5	5.0	0.5
0.15	J,K,M	7.3	10.0	7.0	5.0	0.5
0.22	J,K,M	7.3	10.5	7.0	5.0	0.5

Unit: mm

\*Specifications subject to change without notice.