

# Metallized Polypropylene Film Capacitor Epoxy Coated

DMPP 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

DMPP   103   J   2A   75  
(1)   (2)   (3)   (4)   (5)



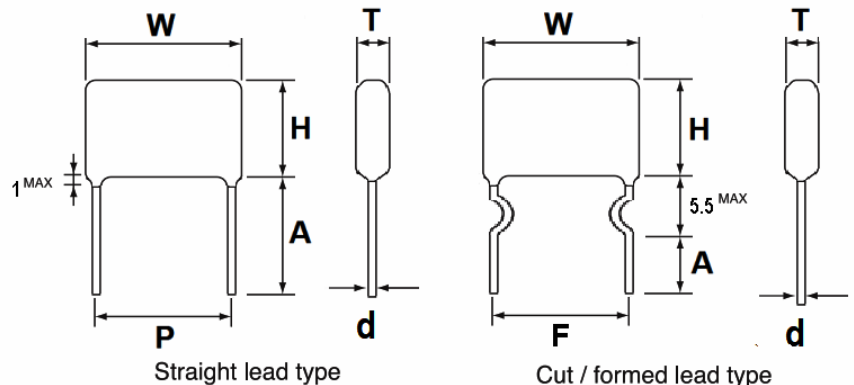
No	item	Code	Description	Series Reference
(1)	Meritek Series	DMPP	Metallized Polypropylene Film Capacitor	Epoxy Coated Type
(2)	Capacitance	103	103: 0.01μF	First two digit: Significant, Third: Multiplier
(3)	Tolerance	J	J: ±5%	-5% ~ +5%
(4)	Rated Voltage	2A	2A: 100VDC	DC Voltage Code
(5)	Internal Code	75	75: 7.5mm Pitch	Internal Control or Project Reference

## ELECTRICAL CHARACTERISTICS

Item	Description	
Capacitance Range	0.0010 ~ 3.3 μF	
Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)	
Rated DC Voltage	100(2A), 250(2E), 400(2G), 630(2J), 1000(3A) VDC	
Rated AC Voltage	63, 160, 200, 250, 400 VAC	
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 δ)	≤ 0.1% at +25°C, 1KHz	
Insulation Resistance- Between Terminals	C ≤ 0.33μF	≥ 15,000MΩ
	C > 0.33μF	≥ 5,000S
Withstand Voltage- Between Terminals	1.5 x Rated Voltage for 60 sec.	

## DIMENSION

P (mm)	d (mm)
7.5	0.6
10.0	0.6
15.0	0.8
20.0	0.8
22.5	0.8
25.0	0.8
30.0	0.8



- 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

100VDC (63VAC)							250VDC (160VAC)						
Cap(μF)	%	W	H	T	P	d	Cap(μF)	%	W	H	T	P	d
0.010	J,K,M	10.0	10.0	6.0	7.5	0.6	0.010	J,K,M	10.0	10.0	6.0	7.5	0.6
0.015	J,K,M	10.0	11.0	7.0	7.5	0.6	0.015	J,K,M	10.0	9.5	6.0	7.5	0.6
0.018	J,K,M	10.0	11.0	7.5	7.5	0.6	0.018	J,K,M	10.0	10.0	6.0	7.5	0.6
0.022	J,K,M	10.0	9.0	5.5	7.5	0.6	0.022	J,K,M	10.0	9.0	5.5	7.5	0.6
0.027	J,K,M	10.0	9.5	5.5	7.5	0.6	0.027	J,K,M	10.0	9.5	5.5	7.5	0.6
0.033	J,K,M	10.0	10.0	6.0	7.5	0.6	0.033	J,K,M	10.0	10.0	6.0	7.5	0.6
0.039	J,K,M	10.0	10.0	6.5	7.5	0.6	0.039	J,K,M	10.0	10.0	6.5	7.5	0.6
0.047	J,K,M	10.0	10.5	7.0	7.5	0.6	0.047	J,K,M	10.0	10.5	7.0	7.5	0.6
0.056	J,K,M	10.0	9.0	5.5	7.5	0.6	0.056	J,K,M	13.0	10.0	6.5	10.0	0.6
0.068	J,K,M	10.0	9.5	5.5	7.5	0.6	0.068	J,K,M	13.0	10.5	7.0	10.0	0.6
0.082	J,K,M	10.0	10.5	6.0	7.5	0.6	0.082	J,K,M	13.0	10.5	6.0	10.0	0.6
0.100	J,K,M	10.0	10.5	6.5	7.5	0.6	0.100	J,K,M	13.0	11.0	6.5	10.0	0.6
0.120	J,K,M	10.0	11.0	6.5	7.5	0.6	0.120	J,K,M	13.0	11.5	7.0	10.0	0.6
0.150	J,K,M	13.0	11.0	6.5	10.0	0.6	0.150	J,K,M	19.0	12.0	7.0	15.0	0.8
0.180	J,K,M	13.0	12.0	6.5	10.0	0.6	0.180	J,K,M	19.0	13.5	7.0	15.0	0.8
0.220	J,K,M	13.0	12.5	7.0	10.0	0.6	0.220	J,K,M	19.0	14.0	7.5	15.0	0.8
0.270	J,K,M	13.0	13.0	7.5	10.0	0.6	0.270	J,K,M	19.0	15.0	8.0	15.0	0.8
0.330	J,K,M	19.0	12.0	6.5	15.0	0.8	0.330	J,K,M	19.0	15.5	9.0	15.0	0.8
0.390	J,K,M	19.0	12.5	7.0	15.0	0.8	0.390	J,K,M	24.0	14.5	8.5	20.0	0.8
0.470	J,K,M	19.0	13.0	7.5	15.0	0.8	0.470	J,K,M	24.0	15.0	9.0	20.0	0.8
0.560	J,K,M	19.0	13.5	8.0	15.0	0.8	0.560	J,K,M	24.0	16.0	10.0	20.0	0.8
0.680	J,K,M	19.0	14.0	9.0	15.0	0.8	0.680	J,K,M	24.0	17.5	10.5	20.0	0.8
0.820	J,K,M	19.0	15.0	9.5	15.0	0.8	0.820	J,K,M	24.0	18.5	11.5	20.0	0.8
1.000	J,K,M	24.0	15.5	8.5	20.0	0.8	1.000	J,K,M	29.0	17.5	9.0	25.0	0.8
1.200	J,K,M	24.0	16.0	9.5	20.0	0.8	1.200	J,K,M	29.0	18.0	10.0	25.0	0.8
1.500	J,K,M	24.0	17.0	10.5	20.0	0.8	1.500	J,K,M	29.0	19.5	11.0	25.0	0.8
1.800	J,K,M	24.0	18.0	11.5	20.0	0.8	1.800	J,K,M	29.0	21.5	11.5	25.0	0.8
2.000	J,K,M	29.0	17.5	10.5	25.0	0.8	2.000	J,K,M	29.0	22.0	12.0	25.0	0.8
2.200	J,K,M	29.0	18.0	11.0	25.0	0.8	2.200	J,K,M	29.0	22.5	12.5	25.0	0.8
2.700	J,K,M	29.0	20.0	11.5	25.0	0.8	2.700	J,K,M	29.0	24.0	14.0	25.0	0.8
3.300	J,K,M	29.0	21.0	13.0	25.0	0.8	3.300	J,K,M	29.0	25.5	15.5	25.0	0.8

Unit: mm

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## DIMENSION

400VDC (200VAC)							630VDC (250VAC)						
Cap( $\mu$ F)	%	W	H	T	P	d	Cap( $\mu$ F)	%	W	H	T	P	d
0.010	J,K,M	10.0	10.0	6.0	7.5	0.6	0.0010	J,K,M	10.0	9.0	5.5	7.5	0.6
0.015	J,K,M	10.0	11.0	7.0	7.5	0.6	0.0015	J,K,M	10.0	9.0	5.5	7.5	0.6
0.018	J,K,M	10.0	11.0	7.5	7.5	0.6	0.0018	J,K,M	10.0	9.0	5.5	7.5	0.6
0.022	J,K,M	10.0	12.0	8.0	7.5	0.6	0.0022	J,K,M	10.0	9.0	6.0	7.5	0.6
0.027	J,K,M	13.0	12.0	6.5	10.0	0.6	0.0027	J,K,M	10.0	9.0	5.0	7.5	0.6
0.033	J,K,M	13.0	12.0	7.0	10.0	0.6	0.0033	J,K,M	10.0	9.0	5.5	7.5	0.6
0.039	J,K,M	13.0	12.5	7.0	10.0	0.6	0.0039	J,K,M	10.0	9.0	5.5	7.5	0.6
0.047	J,K,M	13.0	13.0	8.0	10.0	0.6	0.0047	J,K,M	10.0	9.5	6.0	7.5	0.6
0.056	J,K,M	13.0	14.0	8.5	10.0	0.6	0.0056	J,K,M	10.0	10.0	6.5	7.5	0.6
0.068	J,K,M	19.0	13.5	6.5	15.0	0.8	0.0068	J,K,M	13.0	9.0	5.5	10.0	0.6
0.082	J,K,M	19.0	13.5	7.0	15.0	0.8	0.0082	J,K,M	13.0	9.0	6.0	10.0	0.6
0.100	J,K,M	19.0	14.5	7.5	15.0	0.8	0.0100	J,K,M	13.0	11.0	6.0	10.0	0.6
0.120	J,K,M	19.0	15.0	8.0	15.0	0.8	0.0150	J,K,M	13.0	12.0	7.0	10.0	0.6
0.150	J,K,M	19.0	15.5	9.0	15.0	0.8	0.0180	J,K,M	13.0	13.0	7.5	10.0	0.6
0.180	J,K,M	24.0	15.0	8.0	20.0	0.8	0.0220	J,K,M	13.0	13.5	8.0	10.0	0.6
0.220	J,K,M	24.0	16.0	8.5	20.0	0.8	0.0270	J,K,M	19.0	12.0	7.0	15.0	0.8
0.270	J,K,M	24.0	16.5	9.5	20.0	0.8	0.0330	J,K,M	19.0	12.5	7.5	15.0	0.8
0.330	J,K,M	24.0	17.5	10.0	20.0	0.8	0.0390	J,K,M	19.0	13.0	8.0	15.0	0.8
0.390	J,K,M	29.0	17.0	9.5	25.0	0.8	0.0470	J,K,M	19.0	13.5	8.5	15.0	0.8
0.470	J,K,M	29.0	18.5	10.0	25.0	0.8	0.0560	J,K,M	19.0	15.0	8.5	15.0	0.8
0.560	J,K,M	29.0	19.5	11.0	25.0	0.8	0.0680	J,K,M	24.0	14.5	8.0	20.0	0.8
0.680	J,K,M	29.0	19.5	12.0	25.0	0.8	0.0820	J,K,M	24.0	15.0	8.5	20.0	0.8
0.820	J,K,M	34.0	20.5	12.0	30.0	0.8	0.1000	J,K,M	24.0	16.0	9.0	20.0	0.8
1.000	J,K,M	34.0	21.5	13.0	30.0	0.8	0.1500	J,K,M	24.0	17.5	10.5	20.0	0.8
							0.1800	J,K,M	24.0	19.5	11.0	20.0	0.8
							0.2200	J,K,M	29.0	19.5	10.0	25.0	0.8
							0.2700	J,K,M	29.0	20.5	11.5	25.0	0.8
							0.3300	J,K,M	29.0	22.0	12.0	25.0	0.8
							0.3900	J,K,M	34.0	20.5	12.5	30.0	0.8
							0.4700	J,K,M	34.0	22.0	13.5	30.0	0.8

Unit: mm

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## DIMENSION

1000VDC (400VAC)						
Cap( $\mu$ F)	%	W	H	T	P	d
0.0010	J,K,M	10.0	9.0	5.5	7.5	0.6
0.0015	J,K,M	10.0	9.0	5.5	7.5	0.6
0.0018	J,K,M	10.0	9.0	5.5	7.5	0.6
0.0022	J,K,M	10.0	9.0	6.0	7.5	0.6
0.0027	J,K,M	10.0	10.0	6.0	7.5	0.6
0.0033	J,K,M	10.0	10.0	6.5	7.5	0.6
0.0039	J,K,M	10.0	10.5	7.0	7.5	0.6
0.0047	J,K,M	10.0	11.0	7.5	7.5	0.6
0.0056	J,K,M	10.0	11.5	8.0	7.5	0.6
0.0068	J,K,M	12.5	10.5	7.0	10.0	0.8
0.0082	J,K,M	12.5	11.0	7.5	10.0	0.8

Unit: mm

\*Specifications subject to change without notice.