

Polypropylene Film Capacitor Epoxy Coated Type

DPPN Series

MERITEK

FEATURES

- Operating temperature: -40°C ~ +85°C
- Low Dissipation Factor and Low ESR
- Excellent Temperature Characteristics
- High Insulation Resistance
- Flame Retardant Epoxy Resin Coating UL V-0



PART NUMBERING SYSTEM

DPPN 103 J 2G 10
(1) (2) (3) (4) (5)



No	item	Code	Description	Series Reference
(1)	Meritek Series	DPPN	Polypropylene Film Capacitor	Epoxy Coated Type
(2)	Capacitance	103	103: 0.01 μ F	First two digit: Significant, Third: Multiplier
(3)	Tolerance	J	J: \pm 5%	-5% ~ +5%
(4)	Rated Voltage	2G	2G: 400VDC	DC Voltage Code
(5)	Internal Code	10	10: 10mm Pitch	Internal Control or Project Reference

ELECTRICAL CHARACTERISTICS

Item	Description				
Capacitance Range	390 ~ 0.47 μ F				
Capacitance Tolerance	\pm 5%(J), \pm 10%(K)				
Rated Voltage	100(2A), 250(2E), 400(2G), 630(2J), 1000(3A) VDC				
Operating Temperature Range	Usable upper category temperature : +100°C Derating ratio of rated voltage to +85 ~ +100°C: 1.25% per for rated voltage				
Dissipation Factor (tan δ)	\leq 0.1% at +20°C, 1KHz				
Insulation Resistance- at 20 \pm 5°C Between Terminals	C \leq 0.33 μ F		\geq 30,000M Ω		
	C > 0.33 μ F		\geq 10,000M Ω / μ F		
Withstand Voltage- Between Terminals	2.5 x Rated voltage For 2 sec. at 20 \pm 5°C				
Maximum Pulse Steepness dv/dt (V/us)	Pitch(mm)	250VDC	400VDC	630VDC	1,000VDC
	7.5	10,000	21,000	--	--
	10.0	4,800	9,000	12,000	15,000
	15.0	2,400	4,800	6,000	7,500
	22.5	1,200	2,400	3,000	3,700
	27.5	600	1,200	1,500	1,800

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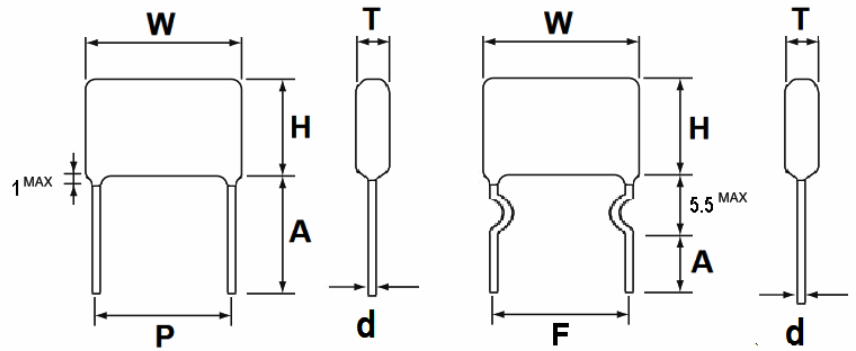
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DIMENSION

P (mm)	d (mm)
7.0	0.6
7.5	0.6
10.0	0.6
15.0	0.8
20.0	0.8
22.5	0.8
27.5	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)



Straight lead type

Cut / formed lead type

DIMENSION

Rated Voltage	100VDC				250VDC				400VDC				630/ 1,000 VDC				
	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P	
Cap(μF)																	
0.00039									10.0	8.5	5.0	7.0	10.0	8.5	5.0	7.0	
0.00047									10.0	8.5	5.0	7.0	10.0	8.5	5.0	7.0	
0.00068	10.5	8.5	5.0	7.5	10.5	8.5	5.0	7.5	10.5	8.5	5.0	7.5	10.5	8.5	5.0	7.5	
0.00075	10.5	9.5	5.0	7.5	10.5	9.5	5.0	7.5	10.5	9.5	5.5	7.5	10.5	9.5	5.5	7.5	
0.00082	10.5	9.5	5.5	7.5	10.5	9.5	5.5	7.5	10.5	9.5	5.5	7.5	10.5	9.5	5.5	7.5	
0.0010	10.5	9.5	5.5	7.5	10.5	9.5	5.5	7.5	10.5	9.5	5.5	7.5	10.5	9.5	5.5	7.5	
0.0015	10.5	9.5	6.0	7.5	10.5	9.5	6.0	7.5	13.0	10.0	6.0	10.0	13.0	11.5	6.0	10.0	
0.0022	10.5	9.5	6.0	7.5	10.5	9.5	6.0	7.5	13.0	10.5	6.5	10.0	13.0	12.5	6.5	10.0	
0.0033	10.5	9.5	6.0	7.5	10.5	9.5	6.0	7.5	13.0	11.0	7.0	10.0	13.0	13.5	7.0	10.0	
0.0047	10.5	9.5	6.0	7.5	10.5	9.5	6.0	7.5	13.0	11.5	7.5	10.0	13.0	14.5	8.0	10.0	
0.0068	10.5	9.5	6.0	7.5	10.5	9.5	6.0	7.5	13.0	12.0	8.0	10.0	13.0	14.5	8.0	10.0	
0.0082	10.5	10.0	6.0	7.5	10.5	10.0	6.0	7.5	13.0	12.5	8.0	10.0	13.0	14.5	8.0	10.0	
0.010	10.5	10.5	6.5	7.5	10.5	10.5	6.5	7.5	13.0	12.5	8.5	10.0	13.0	14.5	8.0	10.0	
0.015	10.5	11.5	7.0	7.5	13.0	11.0	6.0	10.0	13.0	12.5	8.5	10.0	13.0	14.5	8.0	10.0	
0.022	13.0	12.0	6.5	10.0	13.0	12.0	7.0	10.0	18.0	13.0	8.5	15.0	18.0	20.0	11.5	15.0	
0.033	18.0	12.0	6.5	15.0	18.0	14.5	8.0	15.0	18.0	14.0	9.5	15.0	25.0	19.0	11.0	22.5	
0.047	18.0	13.0	7.0	15.0	18.0	15.5	8.5	15.0	18.0	16.0	11.5	15.0	25.0	21.0	12.5	22.5	
0.068	18.0	14.0	8.0	15.0	18.0	16.5	9.5	15.0	25.0	16.0	10.0	22.5	30.0	20.0	12.0	27.5	
0.082	18.0	15.0	8.5	15.0	18.0	17.0	10.0	15.0	25.0	17.5	11.0	22.5	30.0	21.5	13.0	27.5	
0.10	18.0	16.0	9.0	15.0	25.0	18.0	12.0	22.5	30.0	18.0	12.0	27.5	30.0	23.0	14.0	27.5	
0.12	18.0	17.0	9.5	15.0	25.0	19.0	12.5	22.5	30.0	19.0	12.5	27.5	30.0	24.5	15.0	27.5	
0.15	25.0	15.0	8.5	22.5	25.0	20.0	13.0	22.5	30.0	20.0	13.0	27.5	30.0	26.0	15.5	27.5	
0.18	25.0	16.0	9.5	22.5	25.0	21.0	13.5	22.5	30.0	21.0	14.0	27.5	30.0	27.0	16.5	27.5	
0.22	25.0	17.0	10.5	22.5	30.0	20.0	12.0	27.5	30.0	22.0	14.5	27.5	30.0	28.0	17.0	27.5	
0.27	25.0	19.0	11.5	22.5	30.0	22.0	13.0	27.5	30.0	24.0	16.0	27.5					
0.33	30.0	18.5	10.5	27.5	30.0	23.0	14.0	27.5	30.0	26.5	18.0	27.5					
0.47	30.0	21.5	12.5	27.5	30.0	25.5	17.0	27.5	30.0	29.0	21.0	27.5					

Unit: mm

*Specifications subject to change without notice.