

Double Metallized Film Capacitor

BDMPP_(P=7.5)

This standard specifies Double sided-Metallized polypropylene film capacitors for electronic equipment.

■ Features

- pulse duty construction
- self-healing
- Very low Dissipation Factor
- Negative capacitance change versus temperature
- miniature size of NPPS.
- Plastic case(UL94 V-0), Epoxy resin sealing.
- RoHS directive compliant
- AEC-Q200 Available

■ Applications

- for pulse applications e.g.
- Switch mode power supplies
- TV and monitor sets
- electronic ballasts and compact lamps
- snubber and silicon-controlled rectifier(SCR) commutation circuits

■ Specifications

Reference Standard	IEC 60384-17 / IEC 60384-16
Climatic Category	40 / 105 / 21
Rated Temperature	85°C for $V_R(\text{dc})$; 75°C for $V_R(\text{ac})$;
Operation Temperature Range	-40°C~105°C +85°C ~ +105°C decreasing factor 1.25% / °C for $V_R(\text{dc})$ +75°C ~ +105°C decreasing factor 1.35% / °C for $V_R(\text{ac})$
Rated Voltage	250Vdc, 400Vdc, 630Vdc 125Vac, 160Vac, 200Vac
Capacitance Range	0.001μF~0.01μF
Capacitance Tolerance	G : ±2% H : ±3% J : ±5% K : ±10% M : ±20% ※ Standard : J : ±5%, Other Tolerance Grade : available on request.
Voltage Proof	1.75 $U_R(\text{dc})$ / 3sec
Dissipation Factor	≤0.1%(at 1kHz 20°C)
Insulation Resistance	≥30,000MΩ C_R ≤0.33μF 100Vdc 60sec 20°C <500Vdc ≥10,000Ω·F C_R >0.33μF 500Vdc 60sec 20°C ≥500Vdc

■ Part Number System

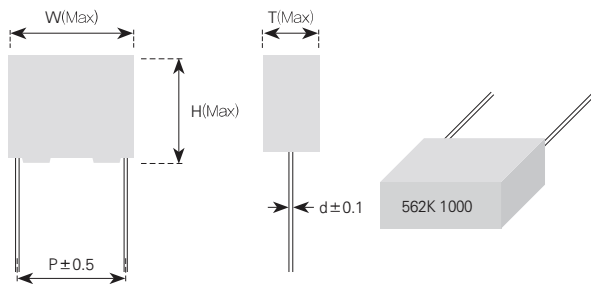
BDMPP	250V	682	K	7.5	S	5	
Part-1	Part-2	Part-3	Part-4	Part-5	Part-6	Part-7	Part-8

Part-1 : Series Code(Series Name) - BDMPP
Part-2 : Rated Voltage(DC:250V~630V / 125Vac~200Vac(Only for AC applications))
Part-3 : Rated Capacitance Value(0.001μF~0.01μF / 102~103)
Part-4 : Capacitance Tolerance(G : ±2% H : ±3% J : ±5% K : ±10% M : ±20%)
Part-5 : Lead Spacing(7.5mm)
Part-6 : Forming-Type and Packing Code
Part-7 : Size Number(1~4 : Min-Type / 5 : Standard-Type / 6~9 : Large-Type)
Part-8 : Internal Use

CODE	STYLE
B	Bending Forming
C	Straight Cutting
D	D-Type Forming
L	B-Type long Forming
M	C-Type long Forming
S	Straight
X	B-Type Forming
Y	C-Type Forming
Z	Z-Type Forming
T	A-Type Tapping
U	B-Type Tapping
V	C-Type Tapping

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■ Dimensions



250VDC(125VAC)

Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.0068	10.5	9	4	7.5-0.6	BDMPP 250V 682K 7.5S 5 ____
0.0082	10.5	9	4	7.5-0.6	BDMPP 250V 822K 7.5S 5 ____
0.01	10.5	9	4	7.5-0.6	BDMPP 250V 103K 7.5S 5 ____

400VDC(160VAC)

Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.0039	10.5	9	4	7.5-0.6	BDMPP 400V 392K 7.5S 5 ____
0.0047	10.5	9	4	7.5-0.6	BDMPP 400V 472K 7.5S 5 ____
0.0056	10.5	9	4	7.5-0.6	BDMPP 400V 562K 7.5S 5 ____
0.0068	10.5	11	5	7.5-0.6	BDMPP 400V 682K 7.5S 5 ____
0.0082	10.5	11	5	7.5-0.6	BDMPP 400V 822K 7.5S 5 ____
0.01	10.5	11	5	7.5-0.6	BDMPP 400V 103K 7.5S 5 ____

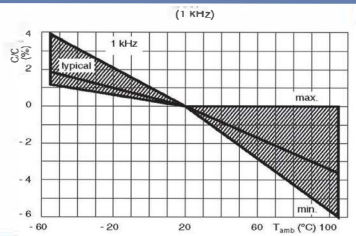
630dc(200Vac)

Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.001	10.5	9	4	7.5-0.6	BDMPP 630V 102K 7.5S 5 ____
0.0033	10.5	9	4	7.5-0.6	BDMPP 630V 332K 7.5S 5 ____
0.0039	10.5	11	5	7.5-0.6	BDMPP 630V 392K 7.5S 5 ____
0.0047	10.5	11	5	7.5-0.6	BDMPP 630V 472K 7.5S 5 ____
0.0056	10.5	11	5	7.5-0.6	BDMPP 630V 562K 7.5S 5 ____
0.0068	10.5	11	5	7.5-0.6	BDMPP 630V 682K 7.5S 5 ____

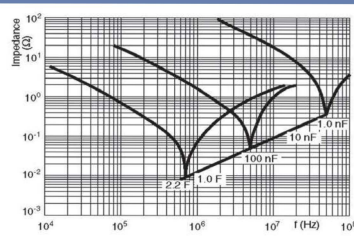
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Electrical Characteristics (Typical Data)

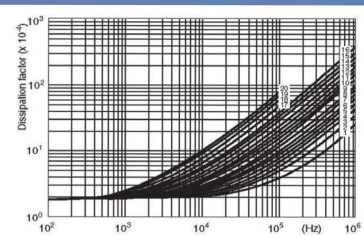
Capacitance as a function of ambient temperature



Impedance as a function of frequency



Tangent of loss angle as a function of frequency



Max. RMS voltage as a function of frequency

