

Metallized Polypropylene Film Capacitor

BMPP_(P=7.5)

Non-inductive construction using metallized Polypropylene film with flame retardant plastic case and epoxy resin filled.

■ Features

- low Dissipation Factor at high Frequency.
- high stability of capacitance & DF.
- self-healing property.
- high insulation resistance.
- Plastic case(UL94 V-0), Epoxy resin sealing
- RoHS directive compliant
- AEC-Q200 Available

■ Applications

- Typical applications include pulse operation in switched mode
- power supply(SMPS), televisions, computers, monitors, electrical ballasts and other high frequency applications demanding stable operation.

■ Specifications

Reference Standard		IEC 60384-16(For-DC Type) IEC 60384-17(For-AC Type)	
Climatic Category		40 / 105 / 21	
Rated Temperature		105℃ +85℃~+105℃ decreasing factor 1.0% / °C for V _R (dc)	
Operation Temperature Range		-40℃~105℃	
Rated Voltage	DC-Type	100V, 250V, 400V, 630V	
	AC-Type	63Vac, 160Vac, 200Vac, 220Vac	
Capacitance Range		0.001μF~0.068μF	
Capacitance Tolerance		G : ±2% H : ±3% J : ±5% K : ±10% M : ±20% ※ Standard : J : ±5%, Other Tolerance Grade : available on request.	
Voltage Proof	DC-Type	1.75U _R (dc) / 3sec	
	AC-Type	4.3U _R (ac) / 3sec	
Dissipation Factor		≤0.1 % (at 1kHz 20℃)	
Rated Voltage	DC-Type	U _R (dc)<500V	≥30,000MΩ C _R ≤0.33μF 100Vdc 60sec 20℃
			≥10,000Ω·F C _R >0.33μF 100Vdc 60sec 20℃
		U _R (dc)≥500V	≥30,000MΩ C _R ≤0.33μF 500Vdc 60sec 20℃
			≥10,000Ω·F C _R >0.33μF 500Vdc 60sec 20℃

■ Part Number System

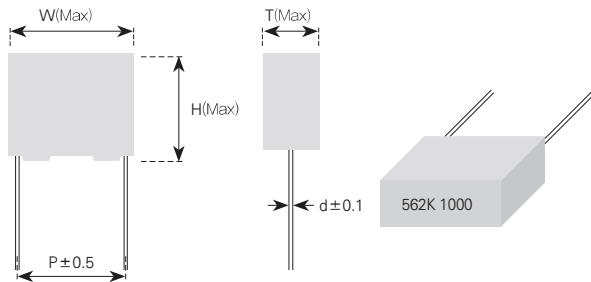
BMPP	100V	223	K	7.5	S	5	
Part-1	Part-2	Part-3	Part-4	Part-5	Part-6	Part-7	Part-8

Part-1 : Series Code(Series Name) - BMPP
 Part-2 : Rated Voltage(DC:100V~630V / 63Vac~220Vac(Only for AC applications))
 Part-3 : Rated Capacitance Value(0.001μF~0.068μF / 102~683)
 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

BMPP(P=7.5)

■ Dimensions



100Vdc(63Vac)

Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.022	10.5	9	4	7.5-0.6	BMPP 100V 223K 7.5S 5 ____
0.027	10.5	9	4	7.5-0.6	BMPP 100V 273K 7.5S 5 ____
0.033	10.5	9	4	7.5-0.6	BMPP 100V 333K 7.5S 5 ____
0.039	10.5	9	4	7.5-0.6	BMPP 100V 393K 7.5S 5 ____
0.047	10.5	11	5	7.5-0.6	BMPP 100V 473K 7.5S 5 ____
0.056	10.5	11	5	7.5-0.6	BMPP 100V 563K 7.5S 5 ____
0.068	10.5	11	5	7.5-0.6	BMPP 100V 683K 7.5S 5 ____

250Vdc(160Vac)

Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.012	10.5	9	4	7.5-0.6	BMPP 250V 123K 7.5S 5 ____
0.015	10.5	9	4	7.5-0.6	BMPP 250V 153K 7.5S 5 ____
0.018	10.5	9	4	7.5-0.6	BMPP 250V 183K 7.5S 5 ____
0.022	10.5	12	6	7.5-0.6	BMPP 250V 223K 7.5S 5 ____
0.027	10.5	12	6	7.5-0.6	BMPP 250V 273K 7.5S 5 ____

400Vdc(200Vac)

Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.0056	10.5	9	4	7.5-0.6	BMPP 400V 562K 7.5S 5 ____
0.0068	10.5	9	4	7.5-0.6	BMPP 400V 682K 7.5S 5 ____
0.0082	10.5	9	4	7.5-0.6	BMPP 400V 822K 7.5S 5 ____
0.01	10.5	9	4	7.5-0.6	BMPE 400V 103K 7.5S 5 ____
0.012	10.5	11	5	7.5-0.6	BMPP 400V 123K 7.5S 5 ____
0.015	10.5	12	6	7.5-0.6	BMPP 400V 153K 7.5S 5 ____
0.018	10.5	12	6	7.5-0.6	BMPP 400V 183K 7.5S 5 ____

630Vdc(220Vac)

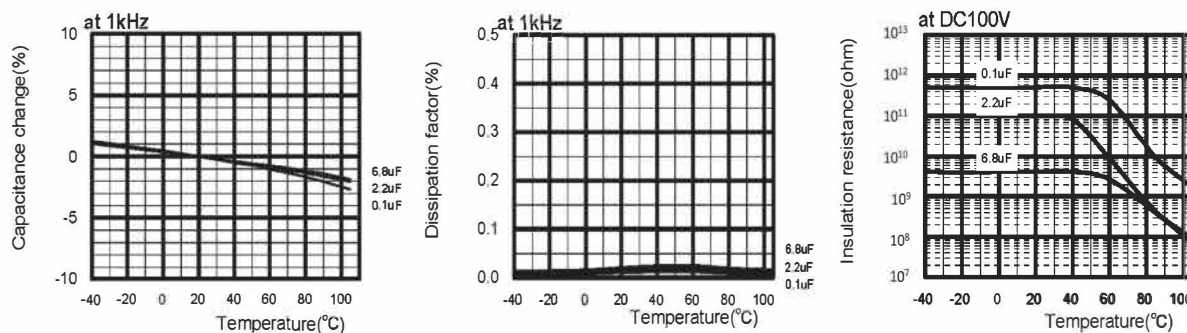
Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.001	10.5	6.5	3.5	7.5-0.6	BMPP 630V 102K 7.5S 5 ____
0.0012	10.5	6.5	3.5	7.5-0.6	BMPP 630V 122K 7.5S 5 ____
0.0015	10.5	6.5	3.5	7.5-0.6	BMPP 630V 152K 7.5S 5 ____
0.0018	10.5	6.5	3.5	7.5-0.6	BMPP 630V 182K 7.5S 5 ____
0.0022	10.5	6.5	3.5	7.5-0.6	BMPP 630V 222K 7.5S 5 ____
0.0027	10.5	6.5	3.5	7.5-0.6	BMPP 630V 272K 7.5S 5 ____
0.0033	10.5	6.5	3.5	7.5-0.6	BMPP 630V 332K 7.5S 5 ____
0.0039	10.5	6.5	3.5	7.5-0.6	BMPP 630V 392K 7.5S 5 ____
0.0047	10.5	6.5	3.5	7.5-0.6	BMPP 630V 472K 7.5S 5 ____
0.0056	10.5	11	5	7.5-0.6	BMPP 630V 562K 7.5S 5 ____
0.0068	10.5	11	5	7.5-0.6	BMPP 630V 682K 7.5S 5 ____
0.0082	10.5	11	5	7.5-0.6	BMPP 630V 822K 7.5S 5 ____

Metallized Polypropylene Film Capacitor

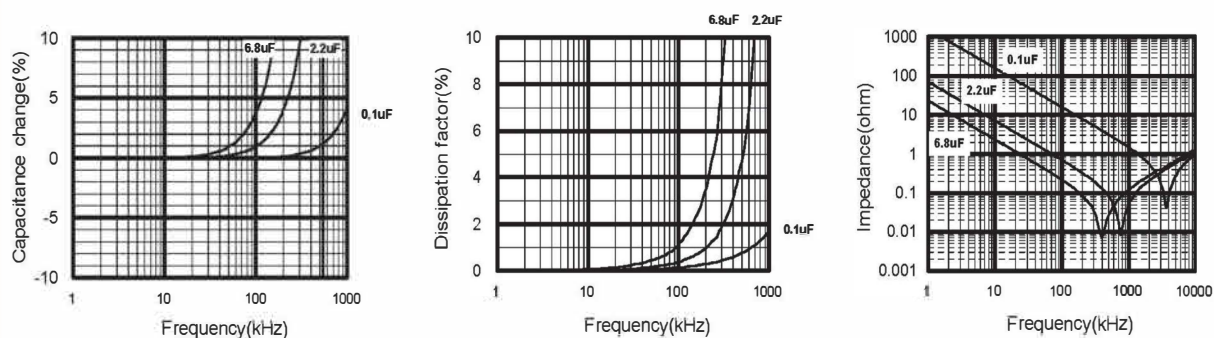
Electrical Characteristics (Typical Data)

250Vdc Series

Temperature Characteristics

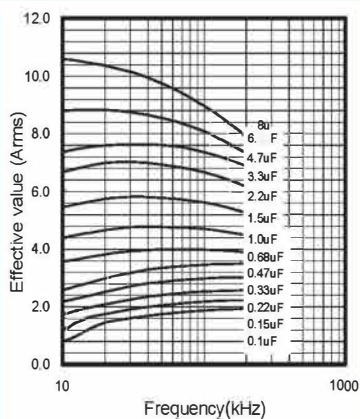


Frequency Characteristics



Applicable Specifications

Permissible Current



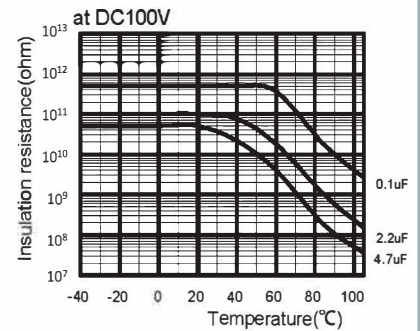
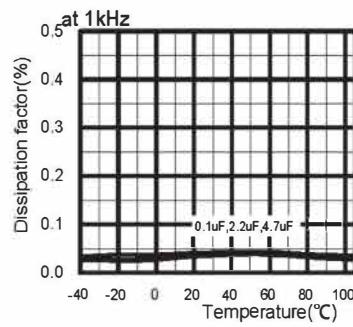
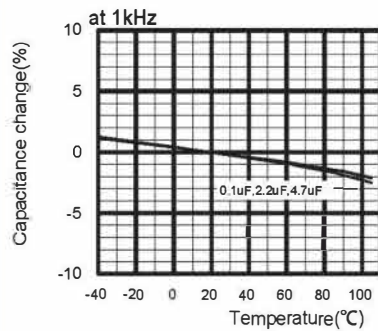
Pulse Handling Capability(dv/dt)
(Max 1000cycles)

Rated Voltage	Capacitance (uF)	Code	dV/dt (V/us)	Current (A0-P)
DC 250V	0.10	104	135	13.5
	0.15	154		20.2
	0.22	224		29.7
	0.33	334		44.5
	0.47	474	82	63.4
	0.68	684		55.7
	1.00	105		82.0
	1.50	155		123.0
	2.20	225	57	180.4
	3.30	335		188.1
	6.80	685		387.6

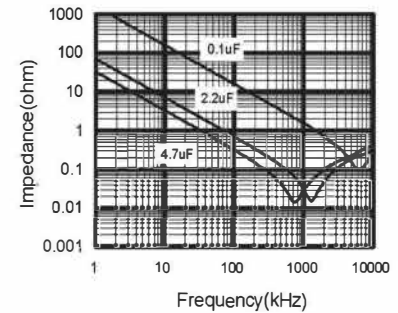
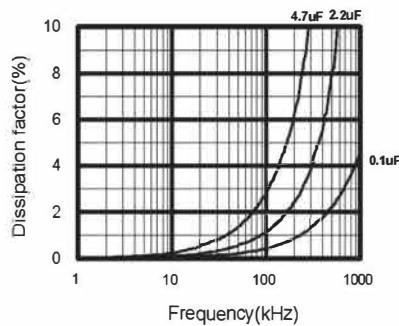
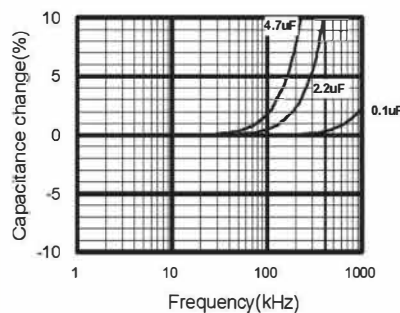
■ Electrical Characteristics (Typical Data)

400Vdc Series

Temperature Characteristics

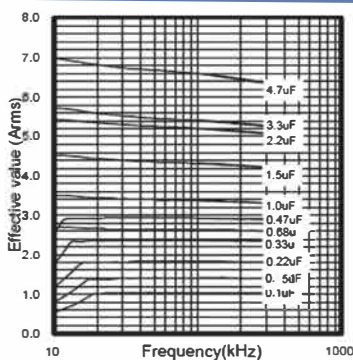


Frequency Characteristics



■ Applicable Specifications

Permissible Current



Pulse Handling Capability(dv/dt)
(Max 1000cycles)

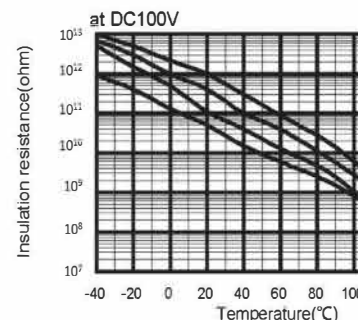
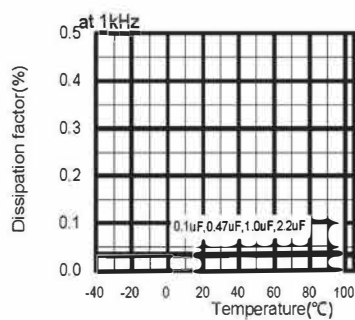
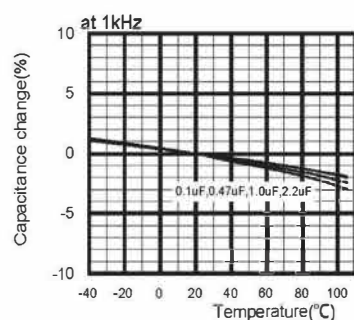
Rated Voltage	Capacitance (μF)	Code	dV/dt (V/μs)	Current (AC-P)
DC 450V	0.10	104	41.6	4.2
	0.15	154		6.2
	0.22	224		9.2
	0.33	334		13.7
	0.47	474		19.6
	0.68	684	24.3	16.5
	1.00	105		24.3
	1.50	155		36.4
	2.20	225		53.4
	2.20	335	14.3	47.2
	4.70	475		67.3

Metallized Polypropylene Film Capacitor

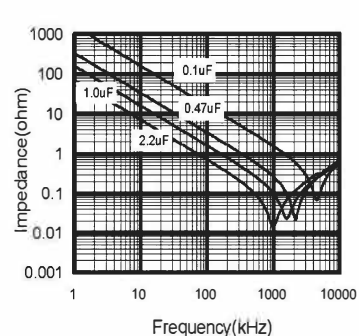
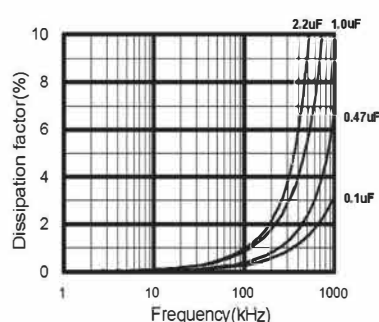
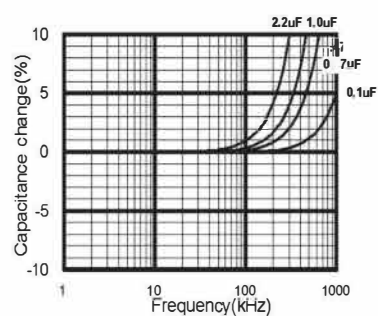
Electrical Characteristics (Typical Data)

630Vdc Series

Temperature Characteristics

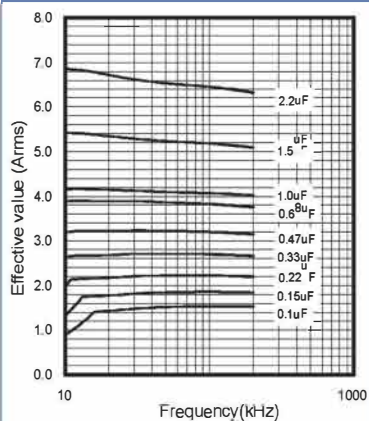


Frequency Characteristics



Applicable Specifications

Permissible Current



Pulse Handling Capability(dv/dt)
(Max 1000cycles)

Rated Voltage	Capacitance (uF)	Code	dV/dt (V/us)	Current (A0-P)
DC 630V	0.10	104	155	15.5
	0.12	124		18.6
	0.15	154		23.3
	0.18	184		27.9
	0.22	224		34.1
	0.27	274		41.9
	0.33	334		51.2
	0.39	394		60.5
	0.47	474	65	72.9
	0.56	564		86.8
	0.68	684		105.4
	0.82	824		125.0
	1.00	105		153.0
	1.20	125		180.0
	1.50	155		225.0
	1.80	185		270.0
	2.20	225		330.0