

Metallized Polyester Film Capacitor

BMPE_(P=5&7.5)

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

■ Features

- Non-inductive wound construction.
- Wide capacitance range, small size, and light weight
- Long life due to self-healing effect.
- Plastic case(UL94 V-0), Epoxy resin sealing
- RoHS directive compliant
- AEC-Q200 Available

■ Applications

- Typical applications include blocking, coupling, decoupling
- bypassing and interference suppression in low voltage
- applications such as automotive. Not for use with the mains.

■ Specifications

Reference Standard		IEC 60384-2
Climatic Category		40 / 105 / 21
Rated Temperature		85°C
Operation Temperature Range		-40°C~105°C +85°C~+105°C decreasing factor 1.0% / °C for V _R (dc)
Rated Voltage	DC-Type	63V, 100V, 250V, 400V, 630V, 1000V
Capacitance Range		0.001μF~10.0μF
Capacitance Tolerance		G : ±2% H : ±3% J : ±5% K : ±10% M : ±20% ※Standard : K : ±10%, Other Tolerance Grade : available on request.
Voltage Proof	DC-Type	1.75U _R (dc) / 3sec
Dissipation Factor		≤1.0%(at 1kHz 20°C)
Rated Voltage	DC-Type	U _R (dc)<500V ≥9,000MΩ C _R ≤0.33μF 100Vdc 60sec 20°C
		≥3,000Ω·F C _R >0.33μF 100Vdc 60sec 20°C
		U _R (dc)≥500V ≥9,000MΩ C _R ≤0.33μF 500Vdc 60sec 20°C
		≥3,000Ω·F C _R >0.33μF 500Vdc 60sec 20°C

■ Part Number System

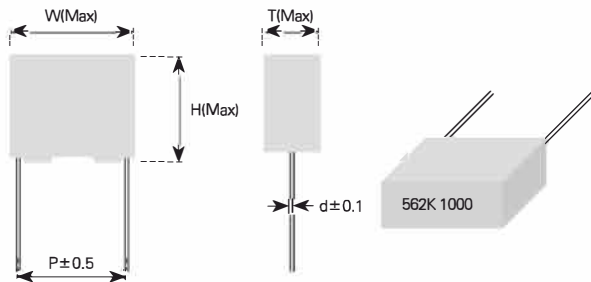
BMPE	63V	104	K	5	S	5	
Part-1	Part-2	Part-3	Part-4	Part-5	Part-6	Part-7	Part-8

Part-1 : Series Code(Series Name) - BMPE
 Part-2 : Rated Voltage(DC:63V~1000V)
 Part-3 : Rated Capacitance Value(0.001μF~1.0μF / 102~105)
 Part-4 : Capacitance Tolerance(G : ±2% H : ±3% J : ±5% K : ±10% M : ±20%)
 Part-5 : Lead Spacing(5mm / 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

BMPE(P=5&7.5)

■ Dimensions



63Vdc					
Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.1	7.2	6.5	2.5	5-0.6	BMPE 63V 104K 5S 5 ____
0.15	7.2	7.5	3.5	5-0.6	BMPE 63V 154K 5S 5 ____
0.22	7.2	7.5	3.5	5-0.6	BMPE 63V 224K 5S 5 ____
0.33	7.2	9.5	4.5	5-0.6	BMPE 63V 334K 5S 5 ____
0.47	7.2	9.5	4.5	5-0.6	BMPE 63V 474K 5S 5 ____
0.68	7.2	11	6	5-0.6	BMPE 63V 684K 5S 5 ____
1	7.2	11	6	5-0.6	BMPE 63V 105K 5S 5 ____
0.1	10.5	6.5	3.5	7.5-0.6	BMPE 63V 104K 7.5S 5 ____
0.15	10.5	6.5	3.5	7.5-0.6	BMPE 63V 154K 7.5S 5 ____
0.22	10.5	9	4	7.5-0.6	BMPE 63V 224K 7.5S 5 ____
0.33	10.5	9	4	7.5-0.6	BMPE 63V 334K 7.5S 5 ____
0.47	10.5	11	5	7.5-0.6	BMPE 63V 474K 7.5S 5 ____
0.68	10.5	11	5	7.5-0.6	BMPE 63V 684K 7.5S 5 ____
1	10.5	11	5	7.5-0.6	BMPE 63V 105K 7.5S 5 ____

100Vdc					
Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.001	7.2	6.5	2.5	5-0.6	BMPE 100V 102K 5S 5 ____
0.0015	7.2	6.5	2.5	5-0.6	BMPE 100V 152K 5S 5 ____
0.0022	7.2	6.5	2.5	5-0.6	BMPE 100V 222K 5S 5 ____
0.0033	7.2	6.5	2.5	5-0.6	BMPE 100V 332K 5S 5 ____
0.0047	7.2	6.5	2.5	5-0.6	BMPE 100V 472K 5S 5 ____
0.0068	7.2	6.5	2.5	5-0.6	BMPE 100V 682K 5S 5 ____

0.01	7.2	6.5	2.5	5-0.6	BMPE 100V 103K 5S 5 ____
0.015	7.2	6.5	2.5	5-0.6	BMPE 100V 153K 5S 5 ____
0.022	7.2	6.5	2.5	5-0.6	BMPE 100V 223K 5S 5 ____
0.033	7.2	6.5	2.5	5-0.6	BMPE 100V 333K 5S 5 ____
0.047	7.2	6.5	2.5	5-0.6	BMPE 100V 473K 5S 5 ____
0.068	7.2	6.5	2.5	5-0.6	BMPE 100V 683K 5S 5 ____
0.1	7.2	7.5	3.5	5-0.6	BMPE 100V 104K 5S 5 ____
0.15	7.2	9.5	4.5	5-0.6	BMPE 100V 154K 5S 5 ____
0.22	7.2	9.5	4.5	5-0.6	BMPE 100V 224K 5S 5 ____
0.33	7.2	10	5	5-0.6	BMPE 100V 334K 5S 5 ____
0.47	7.2	11	6	5-0.6	BMPE 100V 474K 5S 5 ____
0.047	10.5	6.5	3.5	7.5-0.6	BMPE 100V 473K 7.5S 5 ____
0.068	10.5	6.5	3.5	7.5-0.6	BMPE 100V 683K 7.5S 5 ____
0.1	10.5	9	4	7.5-0.6	BMPE 100V 104K 7.5S 5 ____
0.15	10.5	9	4	7.5-0.6	BMPE 100V 154K 7.5S 5 ____
0.22	10.5	9	4	7.5-0.6	BMPE 100V 224K 7.5S 5 ____
0.33	10.5	11	5	7.5-0.6	BMPE 100V 334K 7.5S 5 ____
0.47	10.5	11	5	7.5-0.6	BMPE 100V 474K 7.5S 5 ____
0.68	10.5	11	5	7.5-0.6	BMPE 100V 684K 7.5S 5 ____
1	10.5	12	6	7.5-0.6	BMPE 100V 105K 7.5S 5 ____

250Vdc					
Cap. (μF)	Dimensions(mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.01	10.5	6.5	3.5	7.5-0.6	BMPE 250V 103K 7.5S 5 ____
0.015	10.5	6.5	3.5	7.5-0.6	BMPE 250V 153K 7.5S 5 ____
0.022	10.5	6.5	3.5	7.5-0.6	BMPE 250V 223K 7.5S 5 ____
0.033	10.5	6.5	3.5	7.5-0.6	BMPE 250V 333K 7.5S 5 ____
0.047	10.5	9	4	7.5-0.6	BMPE 250V 473K 7.5S 5 ____
0.068	10.5	9	4	7.5-0.6	BMPE 250V 683K 7.5S 5 ____
0.1	10.5	11	5	7.5-0.6	BMPE 250V 104K 7.5S 5 ____
0.15	10.5	12	6	7.5-0.6	BMPE 250V 154K 7.5S 5 ____
0.22	10.5	12	6	7.5-0.6	BMPE 250V 224K 7.5S 5 ____

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400Vdc

Cap. (μ F)	Dimensions(mm)			Pitch d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.0047	10.5	6.5	3.5	7.5-0.6	BMPE 400V 472K 7.5S 5
0.0068	10.5	6.5	3.5	7.5-0.6	BMPE 400V 682K 7.5S 5
0.01	10.5	9	4	7.5-0.6	BMPE 400V 103K 7.5S 5
0.015	10.5	9	4	7.5-0.6	BMPE 400V 153K 7.5S 5
0.022	10.5	11	5	7.5-0.6	BMPE 400V 223K 7.5S 5
0.033	10.5	12	6	7.5-0.6	BMPE 400V 333K 7.5S 5

630Vdc

Cap. (μ F)	Dimensions(mm)			Pitch d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.001	10.5	6.5	3.5	7.5-0.6	BMPE 630V 102K 7.5S 5
0.0015	10.5	6.5	3.5	7.5-0.6	BMPE 630V 152K 7.5S 5
0.0022	10.5	6.5	3.5	7.5-0.6	BMPE 630V 222K 7.5S 5
0.0033	10.5	6.5	3.5	7.5-0.6	BMPE 630V 332K 7.5S 5
0.0047	10.5	9	4	7.5-0.6	BMPE 630V 472K 7.5S 5

0.0068	10.5	9	4	7.5-0.6	BMPE 630V 682K 7.5S 5
0.01	10.5	11	5	7.5-0.6	BMPE 630V 103K 7.5S 5
0.015	10.5	11	5	7.5-0.6	BMPE 630V 153K 7.5S 5
0.022	10.5	12	6	7.5-0.6	BMPE 630V 223K 7.5S 5
0.033	10.5	12	6	7.5-0.6	BMPE 630V 333K 7.5S 5
0.047	10.5	12	6	7.5-0.6	BMPE 630V 473K 7.5S 5

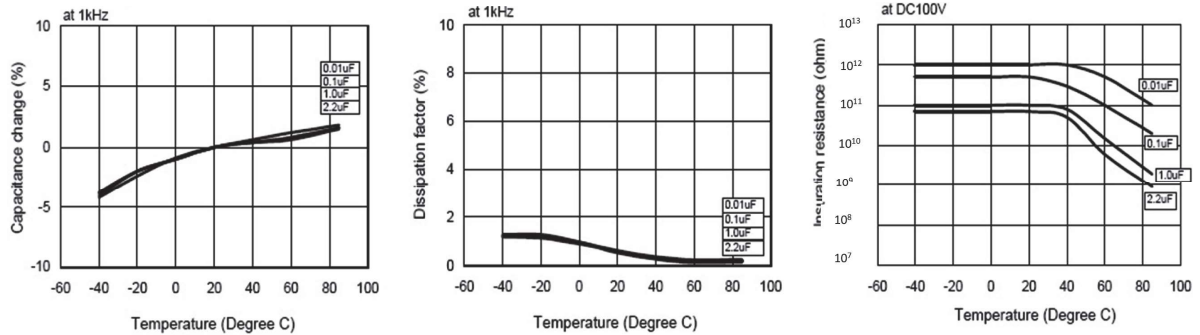
1000Vdc

Cap. (μ F)	Dimensions(mm)			Pitch d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.001	10.5	9	4	7.5-0.6	BMPE 1000V 102K 7.5S 5
0.0015	10.5	9	4	7.5-0.6	BMPE 1000V 152K 7.5S 5
0.0022	10.5	9	4	7.5-0.6	BMPE 1000V 222K 7.5S 5
0.0033	10.5	9	4	7.5-0.6	BMPE 1000V 332K 7.5S 5
0.0047	10.5	11	5	7.5-0.6	BMPE 1000V 472K 7.5S 5
0.0068	10.5	11	5	7.5-0.6	BMPE 1000V 682K 7.5S 5
0.01	10.5	11	5	7.5-0.6	BMPE 1000V 103K 7.5S 5
0.015	10.5	12	6	7.5-0.6	BMPE 1000V 153K 7.5S 5

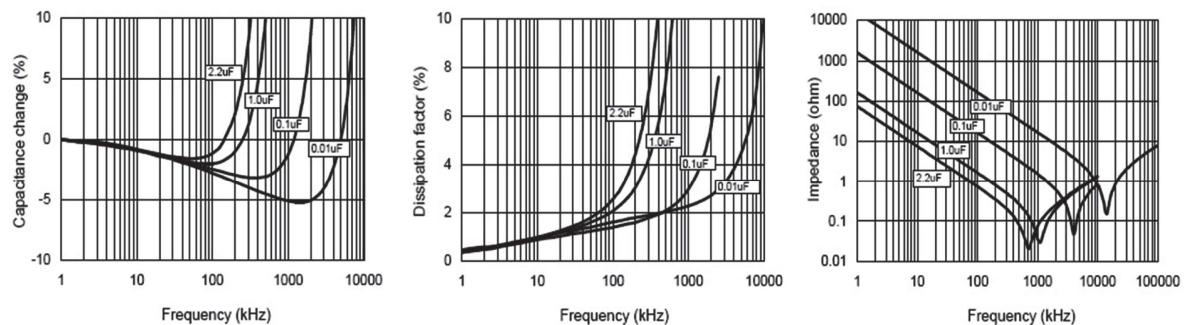
■ Electrical Characteristics (Typical Data)

100Vdc Series

Temperature Characteristics

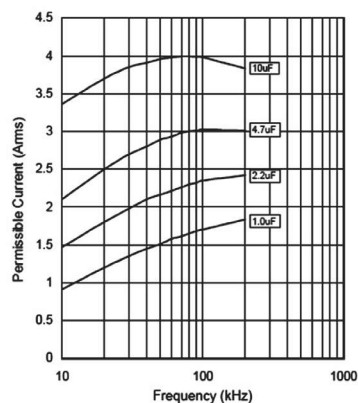


Frequency Characteristics

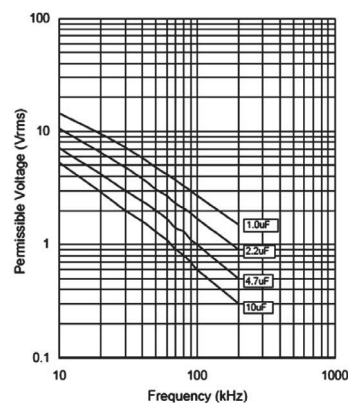


■ Applicable Specifications

Permissible Current



Permissible Voltage
(at sine wave)



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

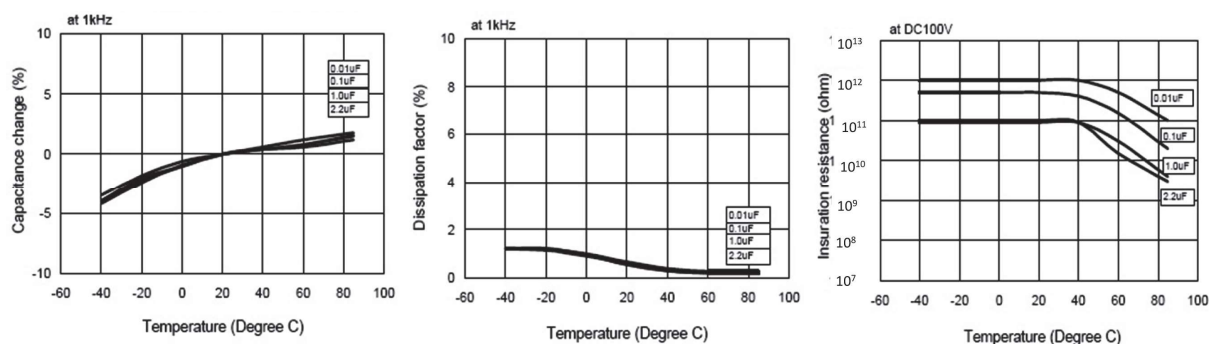
Rating Voltage	Capacitance Value(μ F)	Code	dV/dt(V/ μ s)	Current(o-p) (A)
100VDC	0.56	564	22	12.32
	0.68	684		15.0
	0.82	824		18.0
	1.00	105		22.0
	1.20	125	11	13.2
	1.50	155		17.1
	1.80	185		19.8
	2.20	225		24.2
	2.70	275	6	29.7
	3.30	335		36.3
	3.90	395		23.4
	4.70	475		28.2
	5.60	565		33.6
	6.80	685		40.8
	8.20	825		49.2
	10.00	106		60.0

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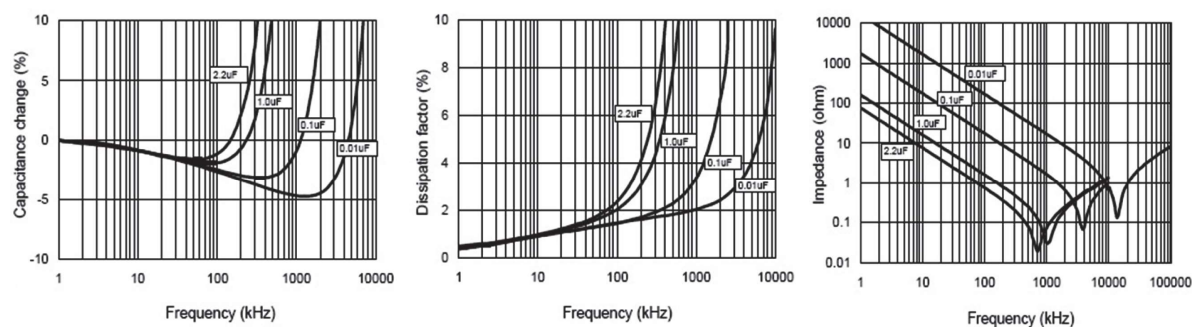
250Vdc Series

Electrical Characteristics (Typical Data)

Temperature Characteristics

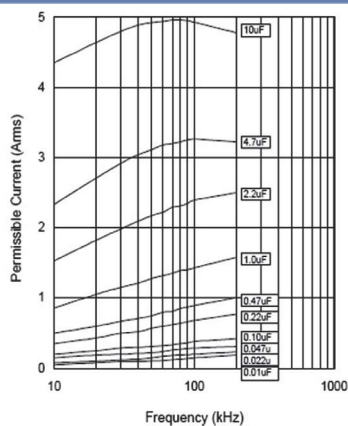


Frequency Characteristics

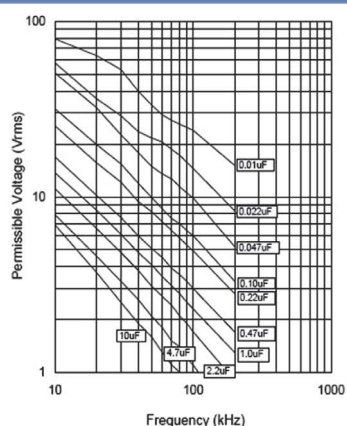


Applicable Specifications

Permissible Current



Permissible Voltage
(at sine wave)



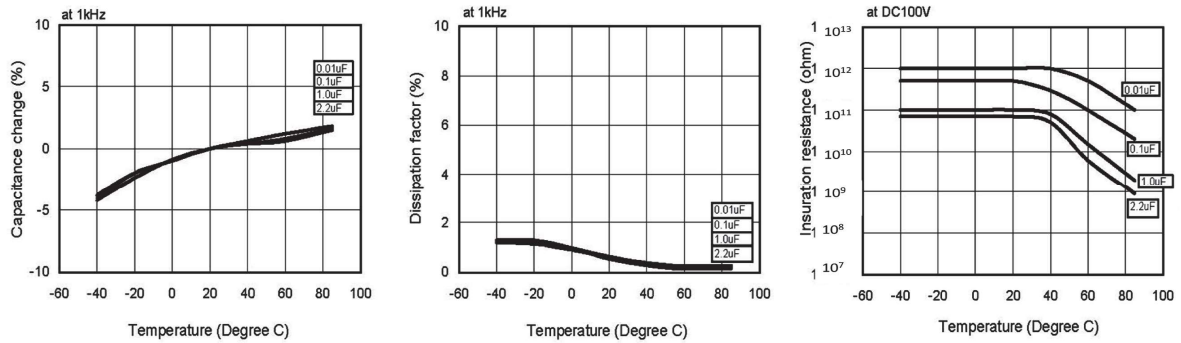
Pulse Handling Capability(dv/dt)
(Max 1000cycles)

Rating Voltage	Capacitance Value(uF)	Code	dV/dt(V/us)	Current(o-p) (A)
250VDC	0.010	103	48	0.48
	0.015	153		0.72
	0.022	223		1.06
	0.033	333		1.58
	0.047	473		2.26
	0.068	683	33	3.26
	0.100	104		4.80
	0.150	154		7.20
	0.220	224		10.89
	0.330	334	18	18.00
	0.470	474		27.00
	0.680	684		47.00
	1.000	105		80.00
	1.500	155	10	108.00
	2.200	225		162.00
	3.300	335		243.00
	4.700	475		364.50
	6.800	685	8	546.75
	10.000	106		810.00

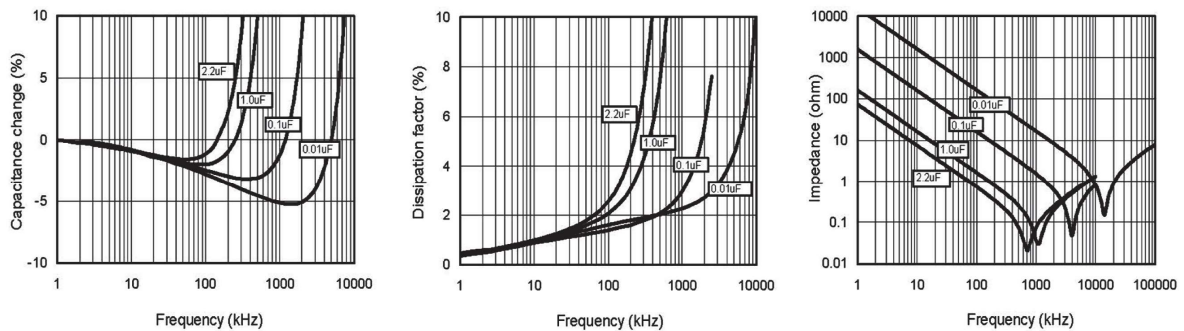
■ Electrical Characteristics (Typical Data)

400Vdc Series

Temperature Characteristics

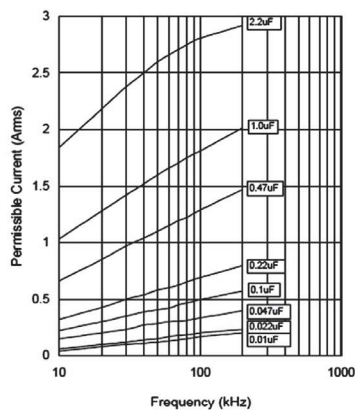


Frequency Characteristics

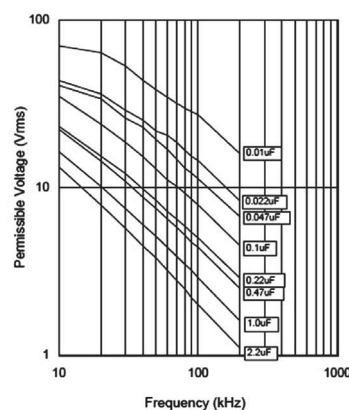


■ Applicable Specifications

Permissible Current



Permissible Voltage
(at sine wave)



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

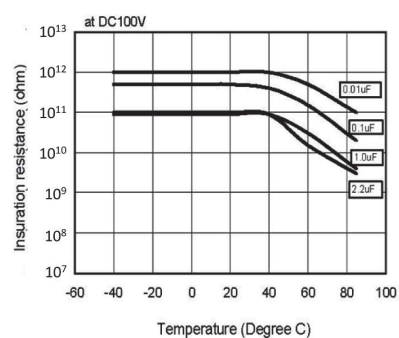
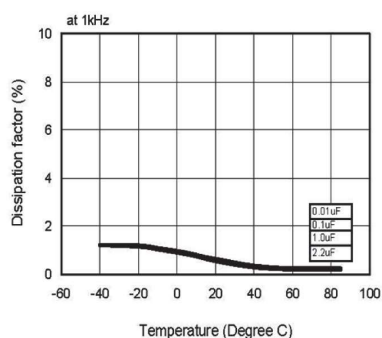
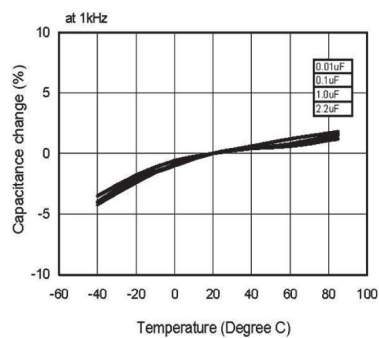
Rating Voltage	Capacitance Value(uF)	Code	dV/dt(V/us)	Current(o-p) (A)
400VDC	0.010	103	131	1.31
	0.015	153		1.97
	0.022	223		2.88
	0.033	333		4.32
	0.047	473	78	3.67
	0.068	683		5.30
	0.100	104		7.80
	0.150	154		5.55
	0.220	224	37	8.14
	0.330	334		12.21
	0.470	474		17.39
	0.680	684		14.96
	1.000	105	22	22.00
	1.200	155		27.00
	2.200	225		39.60
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Metallized Polyester Film Capacitor

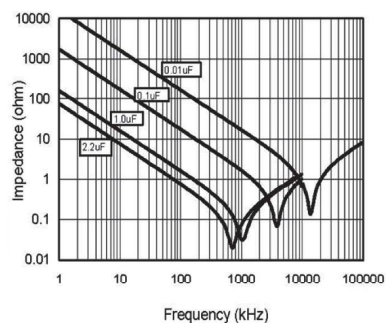
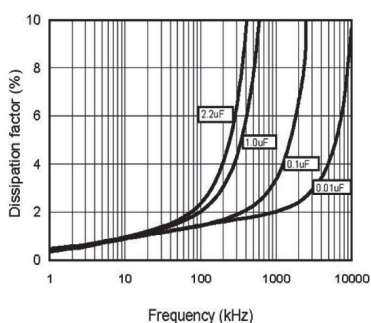
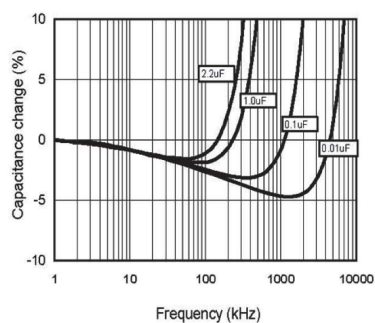
Electrical Characteristics (Typical Data)

630Vdc Series

Temperature Characteristics

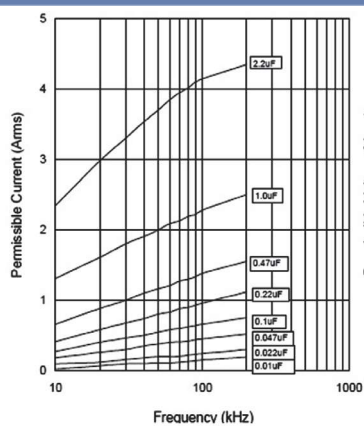


Frequency Characteristics

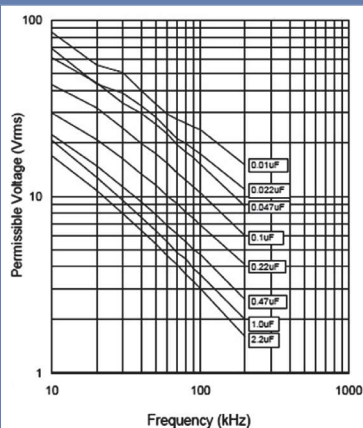


Applicable Specifications

Permissible Current



Permissible Voltage
(at sine wave)



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

Rating Voltage	Capacitance Value(uF)	Code	dV/dt(V/us)	Current(o-p) (A)
630VDC	0.010	103	273	2.73
	0.015	153		4.10
	0.022	223		6.01
	0.033	333		9.01
	0.047	473	116	12.83
	0.068	683		7.89
	0.100	104		11.60
	0.150	154		17.40
	0.220	224	63	25.52
	0.330	334		20.79
	0.470	474		29.61
	0.680	684		42.84
	1.000	105	48	48.00
	1.500	155		72.00
	2.200	225		105.60