

Metallized Polyester Film Capacitor

FMPE

Non-inductive construction using metallized Polyester film with flame retardant epoxy resin coating

■ Features

- Self-healing property.
- Safe-film construction.
- miniature size of MPE.
- Coated with flame-retardant(UL94 V-0) epoxy resin.
- RoHS directive compliant

■ Applications

- DC Multipurpose applications.
- Widely used in filter and low pulse circuits.

■ Specifications

Reference Standard		IEC 60384-2	
Climatic Category		40 / 105 / 21	
Rated Temperature		85℃	
Operation Temperature Range		-40℃~105℃ +85℃~+105℃ decreasing factor 1.0% / °C for V_R (dc)	
Rated Voltage		450V	
Capacitance Range		0.1μF~4.7μF	
Capacitance Tolerance		J : ±5% K : ±10% M : ±20% ※Standard : K : ±10%, Other Tolerance Grade : available on request.	
Voltage Proof		1.75 U_R (dc) / 3sec	
Dissipation Factor		≤1.0%(at 1kHz 20℃)	
Rated Voltage	DC-Type	U_R (dc)<450V	$\geq 9,000M\Omega$ $C_R \leq 0.33\mu F$ 100Vdc 60sec 20℃
			$\geq 3,000\Omega \cdot F$ $C_R > 0.33\mu F$ 100Vdc 60sec 20℃

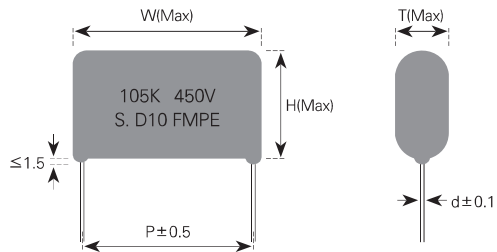
■ Part Number System

FMPE	450V	104	K	10	S	5	
Part-1	Part-2	Part-3	Part-4	Part-5	Part-6	Part-7	Part-8

Part-1 : Series Code(Series Name) - FMPE
Part-2 : Rated Voltage(DC : 450V)
Part-3 : Rated Capacitance Value(0.1μF~4.7μF / 104~475)
Part-4 : Capacitance Tolerance(J : ±5% K : ±10% M : ±20%)
Part-5 : Lead Spacing(10mm / 15mm / 22.5mm / 27.5mm)
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

■ Dimensions



450Vdc					
Cap. (μF)	Dimension (mm)			Pitch - d	PART NUMBER
	W (max.)	H (max.)	T (max.)		
0.1	13.0	10.5	6.0	10-0.6	FMPE450V104K10S5 ____
0.12	13.0	10.5	5.5	10-0.6	FMPE450V124K10S5 ____
0.15	13.0	11.0	6.0	10-0.6	FMPE450V154K10S5 ____
0.18	13.0	11.0	6.0	10-0.6	FMPE450V184K10S5 ____
0.22	13.0	12.0	6.0	10-0.6	FMPE450V224K10S5 ____

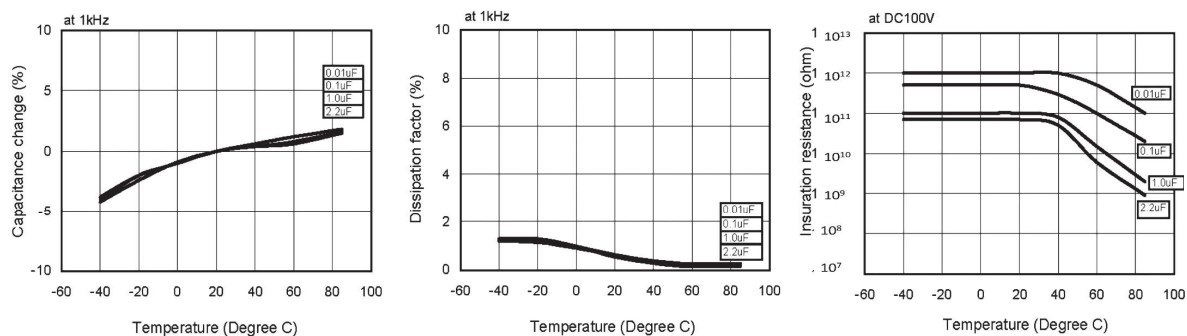
0.27	18.0	11.5	6.5	10-0.6	FMPE450V274K10S5 ____
0.33	18.0	11.5	6.0	15-0.8	FMPE450V334K15S5 ____
0.39	18.0	12.0	6.0	15-0.8	FMPE450V394K15S5 ____
0.47	18.0	14.0	6.5	15-0.8	FMPE450V474K15S5 ____
0.56	18.0	12.5	6.5	15-0.8	FMPE450V564K15S5 ____
0.68	18.0	14.0	6.5	15-0.8	FMPE450V684K15S5 ____
0.82	18.0	16.0	8.0	15-0.8	FMPE450V824K15S5 ____
1.0	18.0	16.5	9.0	15-0.8	FMPE450V105K15S5 ____
1.0	26.0	15.0	7.0	22.5-0.8	FMPE450V105K22.5S5 ____
1.2	26.0	15.5	7.5	22.5-0.8	FMPE450V125K22.5S5 ____
1.5	26.0	16.0	8.5	22.5-0.8	FMPE450V155K22.5S5 ____
1.8	26.0	17.0	9.0	22.5-0.8	FMPE450V185K22.5S5 ____
2.2	26.0	18.0	11.0	22.5-0.8	FMPE450V225K22.5S5 ____
2.5	26.0	18.5	10.5	22.5-0.8	FMPE450V255K22.5S5 ____
2.7	26.0	19.0	11.0	22.5-0.8	FMPE450V275K22.5S5 ____
3.3	26.0	22.0	11.0	22.5-0.8	FMPE450V335K22.5S5 ____
3.9	26.0	23.0	12.0	22.5-0.8	FMPE450V395K22.5S5 ____
4.7	26.0	24.0	13.0	22.5-0.8	FMPE450V475K22.5S5 ____

Metallized Polyester Film Capacitor

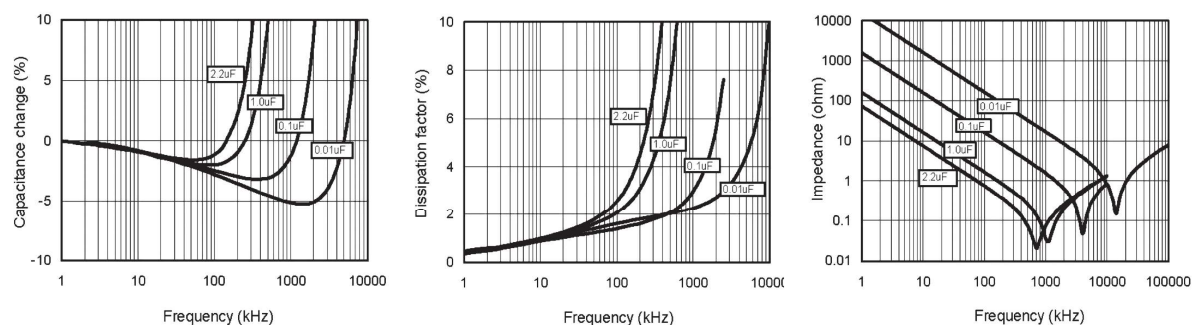
Electrical Characteristics (Typical Data)

450Vdc Series

Temperature Characteristics

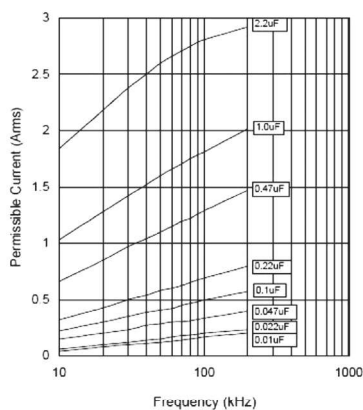


Frequency Characteristics

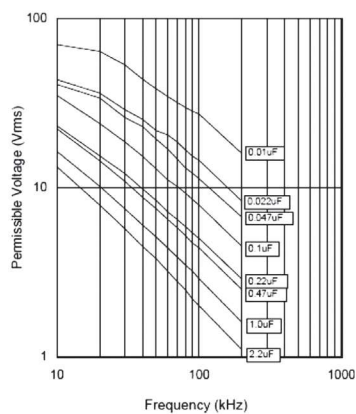


Applicable Specifications

Permissible Current



Permissible Voltage
(at sine wave)



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

Rating Voltage	Capacitance Value(μF)	Code	dV/dt(V/μs)	Current(o-p) (A)
450VDC	0.1	104	78	7.8
	0.15	154	37	5.55
	0.22	224		8.14
	0.33	334		12.21
	0.47	474	22	17.39
	0.68	684		14.96
	1	105	18	22
	1.2	125		27
	2.2	225		39.6