

Metallized Polyester High Capacitance Stability Film Capacitors

Series Code
23, 24

MPET AC

Main Application

This series is specially designed for energy meter applications, voltage dropper, capacitive power supply, etc for long stability of capacitance value.

Construction

Series constructed metallized polyester film and normal metallized polyester film as internal electrodes which are coated with flame retardant epoxy resin or encased in a flame retardant box.

Climatic Category

40/100/56

Maximum Operating Temperature

100°C

Applicable Specification

IEC 384-2

Capacitance Value

0.1µF-1.0µF

Capacitance Tolerance

±5%, ±10%, ±20%

Rated Voltage

310VAC

Voltage Proof

Between terminals 1250VDC for 2 sec.

Tan δ

Frequency (kHz)
At 1

$C_R \leq 1.0\mu F$
0.8%

$C_R > 1.0\mu F$
1.0%

1.Damp Heat Test (Steady State)

Temperature +40°C±2°C
Relative humidity 93%±2%RH
Duration 1000 hours

2.THB Test

(Loading at elevated temperature)

Loaded at 240VAC at 85°C with 85% relative humidity for 1000 hours.

After the Test

ΔC/C: ≤10%
Increase of Tan δ: ≤0.008 at 1kHz.
Insulation Resistance: ≥50% of initial value.

Life Test Conditions

(Loading at elevated temperature)

Loaded at 1.25 times the rated voltage at 85°C for 1000 hours.

After the Test

ΔC/C: ≤10%
Increase of Tan δ: ≤0.003 at 1kHz.
Insulation Resistance: ≥50% of initial value.

Insulation Resistance

Minimum Insulation Resistance R_{IS}
(or) time constant $T = C_R \times R_{IS}$
(at 100VDC temp 20°C, relative humidity 70%)

$C_R \leq 0.33\mu F$
30000 MΩ

$C_R > 0.33\mu F$
10000s

**Ordering code and packaging unit: Metallized Polyester High Capacitance Stability Film Capacitors
MPET AC - Dip Type • Series Code 24**

Rated Voltage	Rated Cap. (µF)	Dimensions (mm)							Ordering code	Packing units Bulk
		W ±0.5	H ±0.5	L ±0.5	d ±0.05	S ±0.5	F ±0.75	DV/DT V/µs		
310VAC	0.18	6.5	12.0	25	0.8	22.5	22.5	200	24 184 +05^A	500
	0.22	7.0	12.5	25	0.8	22.5	22.5	200	24 224 +05^A	500
	0.27	7.5	13.0	25	0.8	22.5	22.5	200	24 274 +05^A	500
	0.33	7.5	14.5	25	0.8	22.5	22.5	200	24 334 +05^A	500
	0.39	8.0	15.0	25	0.8	22.5	22.5	200	24 394 +05^A	500
	0.41	8.5	15.5	25	0.8	22.5	22.5	200	24 414 +05^A	500
	0.47	9.0	16.0	25	0.8	22.5	22.5	200	24 474 +05^A	500
	0.56	9.5	16.5	25	0.8	22.5	22.5	200	24 564 +05^A	500
	0.68	10.5	17.5	25	0.8	22.5	22.5	200	24 684 +05^A	500
	1.00	12.5	19.5	25	0.8	22.5	22.5	200	24 105 +05^A	500

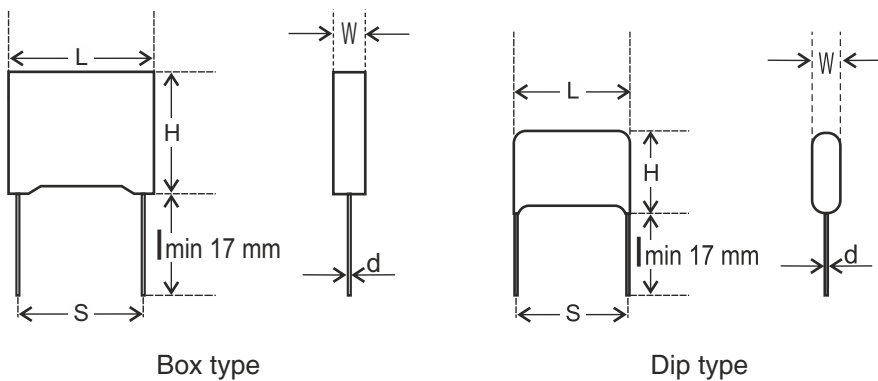
Metallized Polyester High Capacitance Stability Film Capacitors

MPET AC • Code 23, 24



Ordering code and packaging unit: Metallized Polyester High Capacitance Stability Film Capacitors
MPET AC - Box Type • Series Code 23

Rated Voltage	Rated Cap. (µF)	Dimensions (mm)						DV/DT V/µs	Ordering code	Packing units Bulk
		W ±0.5	H ±0.5	L ±0.5	d ±0.05	S ±0.5	F ±0.75			
310VAC	0.18	6.00	15.00	26.50	0.8	22.5	22.5	200	23 184 +05*^	500
	0.22	6.00	15.00	26.50	0.8	22.5	22.5	200	23 224 +05*^	500
	0.27	7.00	16.50	26.50	0.8	22.5	22.5	200	23 274 +05*^	500
	0.33	7.00	16.50	26.50	0.8	22.5	22.5	200	23 334 +05*^	500
	0.39	8.50	17.00	26.50	0.8	22.5	22.5	200	23 394 +05*^	500
	0.41	8.50	17.00	26.50	0.8	22.5	22.5	200	23 414 +05*^	500
	0.47	8.50	17.00	26.50	0.8	22.5	22.5	200	23 474 +05*^	500
	0.56	10.00	18.50	26.50	0.8	22.5	22.5	200	23 564 +05*^	500
	0.68	11.00	20.00	26.50	0.8	22.5	22.5	200	23 684 +05*^	500



Note: For more details please contact info@dekielectronics.com