

# 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**

40/105/56

**Rated and Maximum Operating Temperature**

85°C and 105°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.

**Insulation Resistance**

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

**Tan δ**

Frequency (kHz)	$C_R \leq 1.0\mu F$	$C_R > 1.0\mu F$
At 1	0.8%	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**

$\Delta C/C: \leq 10\%$   
Increase of Tan δ:  $\leq 0.008$  at 1kHz.  
Insulation Resistance:  $\geq 50\%$  of initial value.

**Life Test Conditions**

*(Loading at elevated temperature)*

Loaded at 1.25 times the rated voltage at 70c°C for 1000 hours.

**After the Test**

$\Delta C/C: \leq 10\%$   
Increase of Tan δ:  $\leq 0.003$  at 1kHz.  
Insulation Resistance:  $\geq 50\%$  of initial value.

$C_R \leq 0.33\mu F$	$C_R > 0.33 \mu F$
30000 MΩ	10000s

**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)							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	6.00	15.00	26.50	0.8	22.5	22.5	200	23 184 +05^A	500
	0.22	6.00	15.00	26.50	0.8	22.5	22.5	200	23 224 +05^A	500
	0.27	7.00	16.50	26.50	0.8	22.5	22.5	200	23 274 +05^A	500
	0.33	7.00	16.50	26.50	0.8	22.5	22.5	200	23 334 +05^A	500
	0.39	8.50	17.00	26.50	0.8	22.5	22.5	200	23 394 +05^A	500
	0.41	8.50	17.00	26.50	0.8	22.5	22.5	200	23 414 +05^A	500
	0.47	8.50	17.00	26.50	0.8	22.5	22.5	200	23 474 +05^A	500
	0.56	10.00	18.50	26.50	0.8	22.5	22.5	200	23 564 +05^A	500
	0.68	11.00	20.00	26.50	0.8	22.5	22.5	200	23 684 +05^A	500

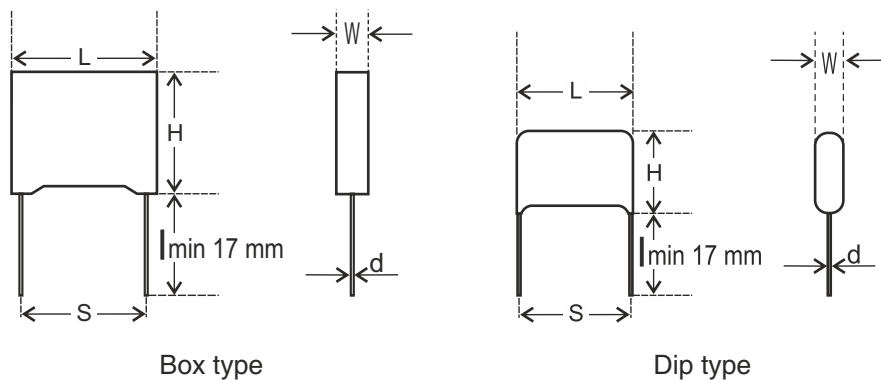
# Metallized Polyester High Capacitance Stability Film Capacitors

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
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	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](mailto:info@dekielectronics.com)