

Metallized Polyester Axial Film Capacitors

Series Code
12, 36

MPET-Axial

Main Application

Blocking, bypassing, filtering, timing, coupling and decoupling low pulse operations.

Construction

Low inductive cell of metallized polyester film wrapped with polyester tape filled by resin.

Climatic Category

40/100/21

Maximum Operating Temperature

100°C

Applicable Specification

IEC 384-2

Capacitance Value

0.01µF - 15.0µF

Capacitance Tolerance

±5%, ±10%

Insulation Resistance

Minimum Insulation Resistance R_{IS}	V_R	$C_R \leq 0.33\mu F$	$C_R > 0.33\mu F$
(or) time constant = $C_R \times R_{IS}$	≤ 100 V DC	3750 MΩ	1250 s
at 25° C, relative humidity $\leq 70\%$	> 100 V DC	7500 MΩ	2500 s

Rated Voltage

100VDC-630VDC

Voltage Proof

Between terminals: 1.6 times of rated voltage for 2 sec.

Tan δ

Frequency	$C_R < 0.1\mu F$	$0.1\mu F < C_R \leq 1\mu F$	$C_R > 1\mu F$
1kHz	0.8%	1.0%	1.0%
10kHz	1.5%	1.5%	-

Life Test Conditions

(Loading at elevated temperature)

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

After the Test:

$\Delta C/C$: $\leq 5\%$ of initial value.

Increase of Tan δ: ≤ 0.005 , $C_R \leq 1\mu F$; ≤ 0.003 , $C_R > 1\mu F$

Insulation resistance: $\geq 50\%$ of the value mentioned in IR chart.

Ordering code and packing units: Metallized Polyester Round Axial Film Capacitors • Series Code 12

Rated Voltage	Rated Cap. (µF)	Dimensions (mm)			Lead Length (Min)	Weight g	Ordering Code	Packing Units Bulk
		Outer Diameter (Max)	Length (Max)	Lead Diameter (±0.05)				
100VDC	0.033	10.0	15	0.6	30	2.1	12 333 + 2A *^	500
	0.100	10.5	15	0.6	30	2.4	12 104 + 2A *^	500
	1.000	14.5	15	0.6	30	4.7	12 105 + 2A *^	250
	1.500	15.5	21	0.8	30	6.9	12 155 + 2A *^	250
	2.200	16.5	21	0.8	30	7.1	12 225 + 2A *^	250
	4.700	20.0	29	0.8	30	14.5	12 475 + 2A *^	200
250VDC	6.800	21.0	35	0.8	30	19.0	12 685 + 2A *^	200
	0.033	10.0	15	0.6	30	2.1	12 333 + 2E *^	500
	0.100	10.5	15	0.6	30	2.4	12 104 + 2E *^	500
	1.000	14.5	15	0.6	30	4.7	12 105 + 2E *^	250
	4.700	18.0	35	0.8	30	13.7	12 475 + 2E *^	100
	9.000	23.0	35	0.8	30	27.0	12 905 + 2E *^	100
400VDC	0.033	10.0	15	0.6	30	2.1	12 333 + 2G *^	500
	0.100	10.5	15	0.6	30	2.4	12 104 + 2G *^	500
	0.470	12.0	29	0.8	30	4.8	12 474 + 2G *^	250
	1.000	15.5	29	0.8	30	8.6	12 105 + 2G *^	200
	2.200	19.5	35	0.8	30	16.0	12 225 + 2G *^	100
	3.300	23.0	35	0.8	30	22.8	12 335 + 2G *^	100
630VDC	10.000	27.5	45	1.0	30	43.0	12 106 + 2G *^	50
	15.000	31.0	45	1.0	30	52.0	12 156 + 2G *^	50
	0.033	10.0	15	0.6	30	2.5	12 333 + 2J *^	250
	0.100	14.0	15	0.6	30	5.0	12 104 + 2J *^	250
	0.470	17.0	29	0.8	30	9.0	12 474 + 2J *^	250
	1.000	21.5	29	0.8	30	17.1	12 105 + 2J *^	200
2.200	19.5	45	1.0	30	21.1	12 155 + 2J *^	100	
	23.0	45	1.0	30	29.5	12 225 + 2J *^	100	

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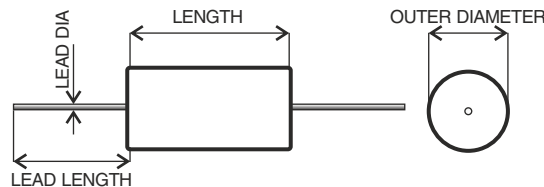
Series Code 12, 36



Ordering code and packing units: Metallized Polyester Flat Axial Film Capacitors • Series Code 36

Rated Voltage	Rated Cap. (µF)	Dimensions (mm)					Weight g	Ordering Code	Packing Units Bulk
		W (Max)	H (Max)	L (Max)	Lead Diameter (±0.05)	Lead Length (Min)			
100VDC	0.010	5.5	8.5	15	0.6	30	1.3	36 103 + 2A *^	500
	0.047	6.0	10.0	15	0.6	30	1.8	36 473 + 2A *^	500
	0.100	6.5	10.5	15	0.6	30	1.9	36 104 + 2A *^	500
	0.410	6.5	11.0	21	0.8	30	2.0	36 414 + 2A *^	500
	1.000	8.5	13.5	21	0.8	30	3.4	36 105 + 2A *^	200
	4.700	11.5	19.5	35	0.8	30	6.3	36 475 + 2A *^	200
	6.800	14.5	23.0	35	0.8	30	8.5	36 685 + 2A *^	200
	10.000	14.5	23.0	45	1.0	30	14.0	36 106 + 2A *^	50
	15.000	17.0	28.0	45	1.0	30	12.3	36 156 + 2A *^	50
250VDC	0.010	5.5	8.5	15	0.6	30	1.3	36 103 + 2E *^	500
	0.047	6.0	10.0	15	0.6	30	1.8	36 473 + 2E *^	250
	0.100	6.5	10.5	15	0.6	30	1.9	36 104 + 2E *^	250
	0.410	7.5	12.0	15	0.6	30	2.7	36 414 + 2E *^	250
	1.000	8.5	13.5	21	0.8	30	3.4	36 105 + 2E *^	200
	2.200	9.5	16.5	29	0.8	30	4.1	36 225 + 2E *^	200
	4.700	11.5	19.5	35	0.8	30	6.3	36 475 + 2E *^	200
	6.800	14.5	23.0	35	0.8	30	8.5	36 685 + 2E *^	100
	10.000	14.5	23.0	45	1.0	30	14.0	36 156 + 2E *^	50
400VDC	0.010	5.5	8.5	15	0.6	30	1.3	36 103 + 2A *^	500
	0.047	6.0	10.0	15	0.6	30	1.8	36 473 + 2G *^	500
	0.100	6.5	10.5	15	0.6	30	2.0	36 104 + 2G *^	500
	1.000	8.5	15.0	29	0.8	30	3.8	36 105 + 2G *^	200
	2.200	12.0	20.0	29	0.8	30	7.0	36 225 + 2G *^	100
	4.700	16.0	24.0	35	0.8	30	15.5	36 475 + 2G *^	100
	10.000	19.5	29.0	45	1.0	30	21.7	36 106 + 2G *^	50
	15.000	24.0	34.0	45	1.0	30	29.0	36 156 + 2G *^	50
	630VDC	0.010	5.5	8.5	15	0.6	30	1.3	36 103 + 2J *^
0.047		7.0	11.0	15	0.6	30	2.4	36 473 + 2J *^	500
0.10		7.5	11.0	21	0.8	30	2.5	36 104 + 2J *^	200
0.470		11.0	16.0	29	0.8	30	5.0	36 474 + 2J *^	200
1.000		15.5	22.5	29	0.8	30	9.4	36 105 + 2J *^	200
1.500		13.0	21.0	45	1.0	30	8.5	36 155 + 2J *^	100
2.200		16.0	24.5	45	1.0	30	15.0	36 225 + 2J *^	100

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Metallized Polyester Flat Axial Film Capacitors - Series Code 36

