

Metallized Polypropylene Axial Film Capacitors

Series Code
40, 50

Main Application

Audio circuits, integrating and filter circuits, SMPS, timing circuits, etc.

Construction

Low inductive wound cell of metallized polypropylene film as internal electrodes wrapped with polyester tape filled with resin.

Climatic Category

40/100/21

Rated and Maximum Operating Temperature

85°C and 100°C

Applicable Specification

IEC384-16

Capacitance Value

0.0047µF-10µF

Insulation Resistance

Minimum Insulation Resistance R_{IS}
(or) time constant $T = C_R \times R_{IS}$
at 25° C, relative humidity ≤70%

$C_R \leq 0.33\mu F$
50000 MΩ

$C_R > 0.33\mu F$
≥ 10000s

Capacitance Tolerance

±5%, ±10%

Rated Voltage

250VDC-1000VDC

Voltage Proof

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

Tan δ

Frequency	$0.1\mu F < C_R \leq 1\mu F$	$C_R > 1\mu F$
1 kHz	0.0008	0.001

Life Test Conditions

(Loading at elevated temperature)

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

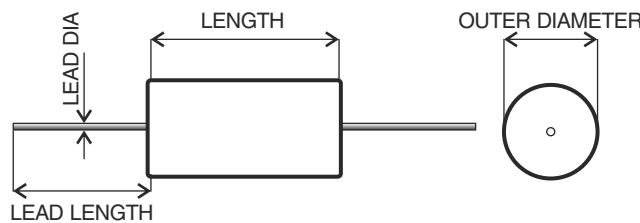
After the Test:

$\Delta C/C \leq 10\%$ of initial value.

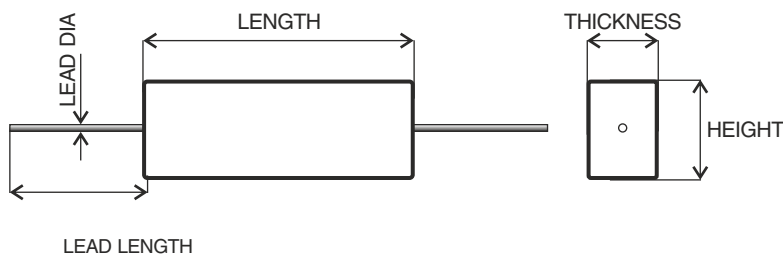
Increase of Tan δ: ≤ 0.003

Insulation resistance: ≥ 50% of the value mentioned in IR chart.

Metallized Polypropylene Round Axial Film Capacitors (Series Code - 40)



Metallized Polypropylene Flat Axial Film Capacitors (Series Code - 50)



Metallized Polypropylene Axial Film Capacitors

Series Code 40, 50



Ordering code and packing units: Metallized Polypropylene Flat Axial Film Capacitors • Series Code 50

Rated Voltage	Rated Cap. (µF)	Dimensions (mm)			d (±0.05)	dv/dt (v/µs)	Ordering Code	Packing Units Bulk
		W (max)	H (max)	L (max)				
250VDC	0.0470	4.0	8.0	15	0.6	25	50 473 +2E [^]	500
	0.1000	5.5	9.0	15	0.6	25	50 104 +2E [^]	500
	0.1500	6.0	10.5	15	0.6	25	50 154 +2E [^]	500
	0.3300	5.0	11.0	27	0.8	10	50 334 +2E [^]	500
	1.0000	8.0	16.0	27	0.8	10	50 105 +2E [^]	500
	1.5000	10.0	18.0	27	0.8	10	50 155 +2E [^]	500
	7.5000	13.5	22.0	45	0.8	-	50 755 +2E [^]	50
	10.0000	15.0	25.5	45	0.8	-	50 106 +2E [^]	50
400VDC	0.0330	4.5	8.0	15	0.6	32	50 333 +2G [^]	500
	0.0680	5.5	10.0	15	0.6	32	50 683 +2G [^]	500
	0.1000	7.0	10.5	15	0.6	32	50 104 +2G [^]	500
	0.2200	6.0	10.0	27	0.8	16	50 224 +2G [^]	500
	0.4700	7.0	13.5	27	0.8	16	50 474 +2G [^]	500
	1.0000	10.5	18.5	27	0.8	16	50 105 +2G [^]	500
	1.5000	10.0	19.5	32	0.8	9	50 155 +2G [^]	500
	6.8000	20.0	27.5	35	0.8	-	50 685 +2G [^]	100
630VDC	0.0330	5.0	10.0	15	0.6	50	50 333 +2J [^]	500
	0.0470	6.0	10.5	15	0.6	50	50 473 +2J [^]	500
	0.2200	6.0	14.0	27	0.8	25	50 224 +2J [^]	500
	0.4700	8.5	17.5	27	0.8	25	50 474 +2J [^]	500
	0.6800	10.5	20.0	27	0.8	25	50 684 +2J [^]	500
	1.0000	11.0	20.5	32	0.8	14	50 105 +2J [^]	100
	2.2000	15.5	24.0	45	0.8	-	50 225 +2J [^]	100
	4.7000	22.5	32.5	45	0.8	-	50 475 +2J [^]	50
1000VDC	0.0047	4.5	8.5	15	0.6	75	50 472 +3A [^]	500
	0.0100	6.0	10.0	15	0.6	75	50 103 +3A [^]	500
	0.0150	7.0	11.0	15	0.6	75	50 153 +3A [^]	500
	0.0330	5.5	11.0	27	0.8	38	50 333 +3A [^]	500
	0.0680	7.0	14.0	27	0.8	38	50 683 +3A [^]	500
	0.1500	9.5	18.5	27	0.8	38	50 154 +3A [^]	500
	0.1500	8.5	17.0	32	0.8	19	50 154 +3A [^]	500
	0.2200	10.0	19.0	32	0.8	19	50 224 +3A [^]	500
	0.3300	12.5	21.5	32	0.8	19	50 334 +3A [^]	500