

Plain Polypropylene Round Axial Film Capacitors

Series Code
97

Non-Inductive

Main Application

Oscillator, timing and LC/RC filter circuits, high frequency coupling of fast digital and analog ICs.

Construction

Film/foil inductive type construction with aluminum foil as electrode and polypropylene (PP) film as dielectric wrapped in polyester tape filled with epoxy resin.

Climatic Category

40/100/21

Rated and Maximum Operating Temperature

85°C and 100°C

Applicable Specification

IEC 384-13

Capacitance Value

0.001µF-2.2 µF

Capacitance Tolerance

±5%, ±10%

Insulation Resistance

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

Rated Voltage

100VDC-1600VDC

Voltage Proof

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

Tan δ

0.08% (max)

Life Test Conditions

(Loading at elevated temperature)

Loaded at 1.5 times of rated voltage at 85°C for 1000 hours.

After the Test:

$\Delta C/C$: ≤ 5% of initial value.

Tan δ: ≤ 1.4 times the value measured before the test.

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

$C_R \leq 0.1 \mu F$ $C_R > 0.1 \mu F$
100000 MΩ 30000 s

Ordering code and packing units: Plain Polypropylene Round Axial Film Capacitors Non-Inductive • Series Code 97

Rated Voltage	Rated Cap. (µF)	Outer Diameter (max)	Dimensions (mm)			Weight (g)	Ordering code
			Length (max)	Lead Diameter (±0.05)	Lead Length (min)		
100VDC	0.001	10.0	15	0.6	30	1.8	97 102 + 2A *^
	0.0047	10.0	15	0.6	30	1.9	97 472 + 2A *^
	0.01	10.0	15	0.6	30	2.0	97 103 + 2A *^
	0.047	13.0	15	0.6	30	3.4	97 473 + 2A *^
	0.047	10.0	21	0.8	30	2.5	97 473 + 2A *^
	0.1	12.0	21	0.8	30	4.2	97 104 + 2A *^
	0.22	17.0	21	0.8	30	8.0	97 224 + 2A *^
	0.1	10.0	29	0.8	30	3.6	97 104 + 2A *^
	0.22	13.0	29	0.8	30	6.6	97 224 + 2A *^
	0.47	18.0	29	0.8	30	12.5	97 474 + 2A *^
	0.1	10.0	35	0.8	30	3.5	97 104 + 2A *^
	0.47	16.0	35	0.8	30	13.7	97 474 + 2A *^
	1.0	22.0	35	0.8	30	22.5	97 105 + 2A *^
	1.0	19.0	45	1.0	30	20.7	97 105 + 2A *^
	1.5	22.5	45	1.0	30	29.8	97 155 + 2A *^
	2.2	24.0	45	1.0	30	42.3	97 225 + 2A *^

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Ordering code and packing units: Plain Polypropylene Round Axial Film Capacitors
Non-Inductive • Series Code 97 (continued)

Rated Voltage	Rated Cap. (µF)	Outer Diameter (max)	Dimensions (mm)			Weight (g)	Ordering code
			Length (max)	Lead Diameter (±0.05)	Lead Length (min)		
250VDC	0.001	10.0	15	0.6	30	1.8	97 102 + 2E *^
	0.0047	10.0	15	0.6	30	1.9	97 472 + 2E *^
	0.01	10.0	15	0.6	30	2.0	97 103 + 2E *^
	0.047	13.0	15	0.6	30	3.4	97 473 + 2E *^
	0.033	10.0	21	0.8	30	2.5	97 333 + 2E *^
	0.1	14.0	21	0.8	30	5.6	97 104 + 2E *^
	0.22	20.0	21	0.8	30	10.7	97 224 + 2E *^
	0.1	12.0	29	0.8	30	4.6	97 104 + 2E *^
	0.22	16.0	29	0.8	30	8.6	97 224 + 2E *^
	0.47	22.0	29	0.8	30	16.6	97 474 + 2E *^
	0.1	11.0	35	0.8	30	4.4	97 104 + 2E *^
	0.47	19.0	35	0.8	30	15.4	97 474 + 2E *^
	1	26.0	35	0.8	30	30.2	97 105 + 2E *^
	1	22.0	45	1.0	30	27.5	97 105 + 2E *^
	1.5	26.0	45	1.0	30	39.6	97 155 + 2E *^
400VDC	0.001	10.0	15	0.6	30	1.8	97 102 + 2G *^
	0.0047	10.0	15	0.6	30	1.9	97 472 + 2G *^
	0.01	12.5	15	0.6	30	3.0	97 103 + 2G *^
	0.01	10.0	21	0.8	30	2.2	97 103 + 2G *^
	0.047	14.0	21	0.8	30	4.6	97 473 + 2G *^
	0.1	18.0	21	0.8	30	8.5	97 104 + 2G *^
	0.068	11.0	29	0.8	30	3.8	97 683 + 2G *^
	0.22	16.5	29	0.8	30	9.5	97 224 + 2G *^
	0.47	22.5	29	0.8	30	18.4	97 474 + 2G *^
	0.1	11.5	35	0.8	30	4.7	97 104 + 2G *^
	0.22	16.5	35	0.8	30	11.0	97 224 + 2G *^
	0.47	22.5	35	0.8	30	21.1	97 474 + 2G *^
	0.68	22.0	45	1.0	30	26.2	97 684 + 2G *^
	1	26.0	45	1.0	30	37.1	97 105 + 2G *^
	630VDC	0.001	10.0	15	0.6	30	1.7
0.0047		10.0	15	0.6	30	2.0	97 472 + 2J *^
0.01		11.0	15	0.6	30	2.5	97 103 + 2J *^
0.01		10.0	21	0.8	30	2.2	97 103 + 2J *^
0.033		13.5	21	0.8	30	4.3	97 333 + 2J *^
0.068		17.0	21	0.8	30	7.5	97 683 + 2J *^
0.047		12.0	29	0.8	30	4.7	97 473 + 2J *^
0.1		16.0	29	0.8	30	8.4	97 104 + 2J *^
0.33		22.5	29	0.8	30	21.5	97 334 + 2J *^
0.1		14.0	35	0.8	30	7.9	97 104 + 2J *^
0.22		19.5	35	0.8	30	15.1	97 224 + 2J *^
0.47		22.5	45	0.8	30	26.8	97 474 + 2J *^

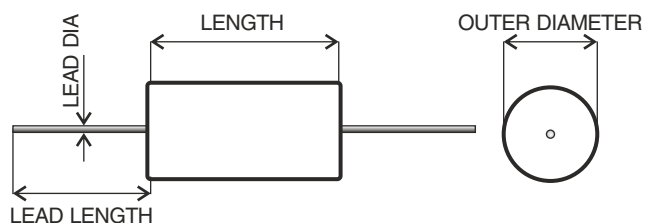
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Non-Inductive • Series Code 97



Ordering code and packing units: Plain Polypropylene Round Axial Film Capacitors
Non-Inductive • Series Code 97 (continued)

Rated Voltage	Rated Cap. (μF)	Outer Diameter (max)	Dimensions (mm)			Weight (g)	Ordering code
			Length (max)	Lead Diameter (±0.05)	Lead Length (min)		
1000VDC	0.001	10.0	15	0.6	30	1.7	97 102 + 3A *^
	0.0022	10.0	15	0.6	30	2.0	97 222 + 3A *^
	0.0033	12.0	15	0.6	30	2.6	97 332 + 3A *^
	0.0047	10.0	21	0.8	30	2.3	97 472 + 3A *^
	0.01	11.0	21	0.8	30	2.9	97 103 + 3A *^
	0.022	11.5	29	0.8	30	4.0	97 223 + 3A *^
	0.033	13.5	29	0.8	30	5.3	97 333 + 3A *^
	0.068	17.0	29	0.8	30	9.2	97 683 + 3A *^
	0.033	11.0	35	0.8	30	4.9	97 333 + 3A *^
	0.1	17.5	35	0.8	30	11.3	97 104 + 3A *^
	0.22	23.5	35	0.8	30	22.1	97 224 + 3A *^
	0.1	15.0	45	1.0	30	10.5	97 104 + 3A *^
	0.22	20.0	45	1.0	30	20.1	97 104 + 3A *^
	1250VDC	0.001	10.0	15	0.6	30	1.7
0.0022		12.0	15	0.6	30	2.5	97 222 + 3B *^
0.0047		10.0	21	0.8	30	2.3	97 472 + 3B *^
0.01		12.5	21	0.8	30	3.7	97 103 + 3B *^
0.022		16.5	21	0.8	30	6.6	97 223 + 3B *^
0.022		13.0	29	0.8	30	5.0	97 223 + 3B *^
0.033		15.0	29	0.8	30	6.7	97 333 + 3B *^
0.068		17.0	29	0.8	30	9.2	97 683 + 3B *^
0.033		11.0	35	0.8	30	4.9	97 333 + 3B *^
0.1		17.5	35	0.8	30	11.3	97 104 + 3B *^
0.22		23.5	35	0.8	30	22.1	97 224 + 3B *^
0.1		15.0	45	1.0	30	10.5	97 104 + 3B *^
0.22		20.0	45	1.0	30	20.1	97 104 + 3B *^
1600VDC		0.001	10.5	15	0.6	30	1.9
	0.0022	10.0	21	0.8	30	2.0	97 222 + 3C *^
	0.0047	11.0	21	0.8	30	2.7	97 472 + 3C *^
	0.01	14.0	21	0.8	30	4.5	97 103 + 3C *^
	0.022	13.0	29	0.8	30	5.8	97 223 + 3C *^
	0.033	15.0	29	0.8	30	7.7	97 333 + 3C *^
	0.033	13.5	35	0.8	30	6.2	97 333 + 3C *^
	0.047	17.0	35	0.8	30	10.2	97 473 + 3C *^
	0.1	22.5	35	0.8	30	19.0	97 104 + 3C *^
	0.1	19.0	45	1.0	30	17.0	97 104 + 3C *^
	0.22	26.5	45	1.0	30	33.3	97 224 + 3C *^
	0.33	31.0	45	1.0	30	47.7	97 224 + 3C *^



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