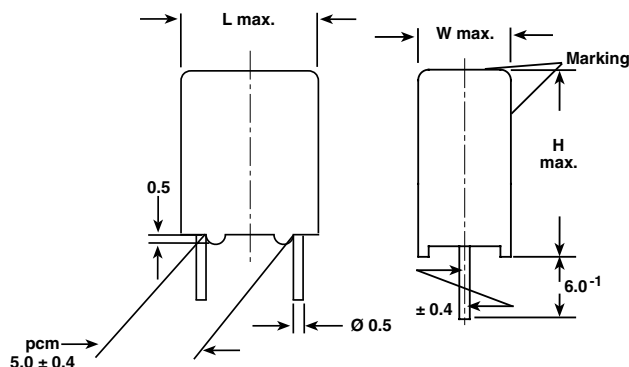


Polypropylene Film Capacitor Related Document: IEC 60384-13

DIMENSIONS in millimeters



FOCUS PRODUCT

MAIN APPLICATIONS

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

MARKING

Manufacturer's logo/type/C-value/rated voltage/tolerance/ date of manufacture

DIELECTRIC

Polypropylene film

ELECTRODES

Metal foil

COATING

Flame retardant plastic case (UL-class 94 V-0), epoxy resin sealed

CONSTRUCTION

Extended foil (refer to general information)

LEADS

Tinned wire

IEC TEST CLASSIFICATION

55/100/56, according to IEC 60068

OPERATING TEMPERATURE RANGE

- 55 °C to + 100 °C

CAPACITANCE RANGE

100 pF to 0.033 µF

DISSIPATION FACTOR TAN δ

FREQUENCY	C < 1000 pF	1000 pF < C < 5000 pF	5000 pF < C < 20 000 pF	20 000 pF < C < 33 000 pF
1 kHz	-	-	-	-
10 kHz	0.0005	0.0005	0.0005	0.0005
100 kHz	-	0.001	0.0015	0.0025
1 MHz	0.001	-	-	-

CAPACITANCE TOLERANCES

± 10 % (K), ± 5 % (J), ± 2.5 % (H), ± 2 % (G), ± 1 % (F)

RATED VOLTAGES (U_R)

63 VDC, 250 VDC, 630 VDC

PERMISSIBLE AC VOLTAGES (RMS) UP TO 60 HZ

40 VAC, 160 VAC, 250 VAC

TEST VOLTAGE (ELECTRODE/ELECTRODE)

2 x U_R for 2 s

PULSE RISE TIME

d_v/d_t = 1000 V/µs

INSULATION RESISTANCE

Measured at 100 VDC (63 VDC series measured at 50 VDC) after one minute
500 000 MΩ minimum value (1000 GΩ typical value)

TEMPERATURE COEFFICIENT

- 200 x 10⁻⁶/°C (typical value)

CAPACITANCE DRIFT

Up to + 40 °C, ± 0.3 % for a period of two years

DERATING FOR DC AND AC CATEGORY VOLTAGE U_C

At + 85 °C: U_C = 1.0 U_R

At + 100 °C: U_C = 0.7 U_R

SELF INDUCTANCE

~ 6 nH measured with 2 mm long leads

PULL TEST ON LEADS

≥ 30 N in direction of leads according to IEC 60068-2-21

DIELECTRIC ABSORPTION

0.05 % (typical value) according to IEC 60384-1

RELIABILITY

Operational life > 300 000 h

Failure rate < 1 FIT (0.5 x U_R and 40 °C)

For further details, please refer to the general information available at www.vishay.com/doc?26033.



RoHS
COMPLIANT

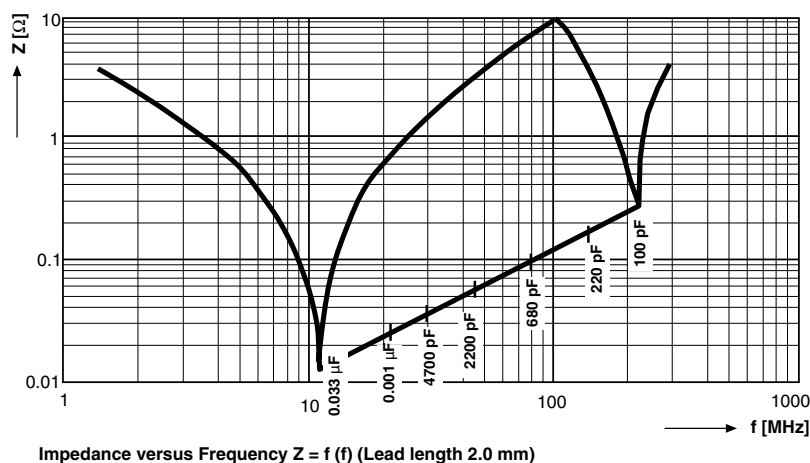
CAPACITANCE	CAPACITANCE CODE	VOLTAGE CODE 06 63 VDC/40 VAC			VOLTAGE CODE 25 250 VDC/160 VAC			VOLTAGE CODE 63 630 VDC/250 VAC		
		W	H	L	W	H	L	W	H	L
100 pF	- 110	-	-	-	-	-	-	4.5	6.0	7.2
150 pF	- 115	-	-	-	-	-	-	4.5	6.0	7.2
220 pF	- 122	-	-	-	-	-	-	4.5	6.0	7.2
330 pF	- 133	-	-	-	-	-	-	4.5	6.0	7.2
470 pF	- 147	-	-	-	-	-	-	4.5	6.0	7.2
680 pF	- 168	-	-	-	-	-	-	4.5	6.0	7.2
1000 pF	- 210	-	-	-	-	-	-	4.5	6.0	7.2
1500 pF	- 215	-	-	-	-	-	-	4.5	6.0	7.2
2200 pF	- 222	-	-	-	4.5	6.0	7.2	-	-	-
3300 pF	- 233	4.5	6.0	7.2	5.5	7.0	7.2	-	-	-
4700 pF	- 247	4.5	6.0	7.2	5.5	7.0	7.2	-	-	-
6800 pF	- 268	4.5	6.0	7.2	7.5	9.0	7.2	-	-	-
0.01 μ F	- 310	5.5	7.0	7.2	7.5	9.0	7.2	-	-	-
0.015 μ F	- 315	5.5	7.0	7.2	9.0	10.0	7.2	-	-	-
0.022 μ F	- 322	7.5	9.0	7.2	-	-	-	-	-	-

Further C-values upon request

RECOMMENDED PACKAGING

LETTER CODE	TYPE OF PACKAGING	HEIGHT (H) (mm)	REEL DIAMETER (mm)	ORDERING CODE EXAMPLE	PCM 5
D	AMMO	16.5	S*	KP 1830-310-065-D	X
G	AMMO	18.5	S*	KP 1830-310-065-G	X
F	REEL	16.5	350	KP 1830-310-065-F	X
W	REEL	18.5	350	KP 1830-310-065-W	X
-	BULK	-	-	KP 1830-310-065	X

*S = box size 55 x 210 x 340 mm (W x H x L)



EXAMPLE OF ORDERING CODE

TYPE	CAPACITANCE CODE	VOLTAGE CODE	TOLERANCE CODE	PACKAGING CODE
KP 1830	210	63	1	G
Tolerance codes: 1 = 1 % (F); 2 = 2 % (G); 3 = 2.5 % (H); 4 = 5 % (J); 5 = 10 % (K)				



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