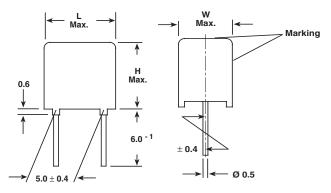


Vishay Roederstein

Metallized Polypropylene Film Capacitor Related Document: IEC 60384-16

Dimensions in millimeters



MAIN APPLICATIONS

Oscillator, timing and LC/RC filter circuits, high frequency coupling/decoupling, sample and hold circuits.

MARKING

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

DIELECTRIC

Polypropylene film

ELECTRODES

Vacuum deposited aluminum

COATING

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

CONSTRUCTION

Extended metallized film (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

 $0.01 \mu F$ to $0.1 \mu F$

CAPACITANCE DRIFT

Up to + 40°C, < 0.5% for a period of two years

FEATURES

Product is completely lead (Pb)-free Product is RoHS-compliant



CAPACITANCE TOLERANCES

 \pm 10% (K), \pm 5% (J), \pm 2.5% (H), \pm 1% (F)



RATED VOLTAGES (UR)

160 VDC

PERMISSIBLE AC VOLTAGES (RMS) UP TO 60HZ

TEST VOLTAGE (ELECTRODE/ELECTRODE)

1.6 x U_R for 2 s

INSULATION RESISTANCE

Measured at 100 VDC after one minute 100,000 M Ω minimum value

TEMPERATURE COEFFICIENT

- 250°C x 10⁻⁶/°C (typical value)

MAXIMUM PULSE RISE TIME

 $dv/dt = 390 V/\mu s$

If the maximum pulse voltage is less than the rated voltage, higher dv/dt values can be permitted.

DERATING FOR DC AND AC.CATEGORY VOLTAGE UC

At + 85° C: $U_{C} = 1.0 U_{R}$ At + 100°C: $U_C = 0.7 U_B$

SELF INDUCTANCE

~ 6 nH measured with 2mm long leads

PULL TEST ON LEADS

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

DIELECTRIC ABSORPTION

0.05% (typical value) acc. to IEC 60384-1

RELIABILITY

Operational life > 300,000 h Failure rate < 5 FIT (40°C and 0.5 x U_B)

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

DISSIPATION FACTOR TAN δ

MEASURED AT	C ≤ 0.1µF			
1kHz	0.4 x 10 ⁻³			
10kHz	0.6 x 10 ⁻³			
100kHz	4 x 10 ⁻³			
Maximum values				

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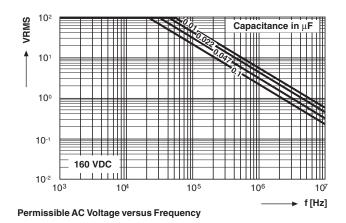


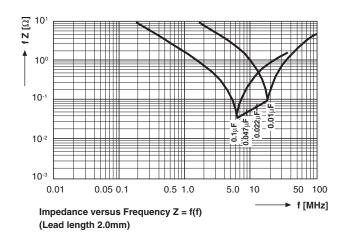
CAPACITANCE	CAPACITANCE CODE	VOLTAGE CODE 16 160 VDC/100 VAC		
		W	Н	L
0.01μF	- 310	5.5	7.0	7.5
0.015μF	- 315	5.5	7.0	7.5
0.022μF	- 322	5.5	7.0	7.5
0.033μF	- 333	7.5	9.0	7.5
0.047μF	- 347	7.5	9.0	7.5
0.068μF	- 368	7.5	9.0	7.5
0.1μF	- 410	9.0	11.0	7.5

Further C-values upon request

RECOMMENDED PACKAGING

LETTER CODE	TYPE OF PACKAGING	HEIGHT (H) (mm)	REEL DIAMETER (mm)	ORDERING CODE EXAMPLES	PCM 5
D	AMMO	16.5	S*	MKP 1837-322-162-D	Х
G	AMMO	18.5	S*	MKP 1837-322-162-G	Х
F	REEL	16.5	350	MKP 1837-322-162-F	Х
W	REEL	18.5	350	MKP 1837-322-162-W	Х
_	BULK	_	_	MKP 1837-322-162	Х







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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

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