imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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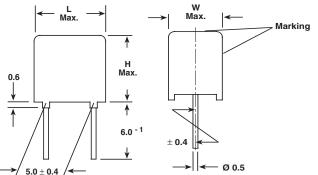
MKP 1837



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

0.01µF to 0.1µF

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)

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

RATED VOLTAGES (U_R) 160 VDC



PERMISSIBLE AC VOLTAGES (RMS) UP TO 60HZ 100 VAC

TEST VOLTAGE (ELECTRODE/ELECTRODE) 1.6 x U_R for 2 s

INSULATION RESISTANCE

Measured at 100 VDC after one minute 100,000 $M\Omega$ 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: $U_{C} = 0.7 U_{R}$

SELF INDUCTANCE

~ 6 nH measured with 2mm long leads

PULL TEST ON LEADS

 \geq 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_R)

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

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				

Document Number: 26017 Revision: 23-Jun-05

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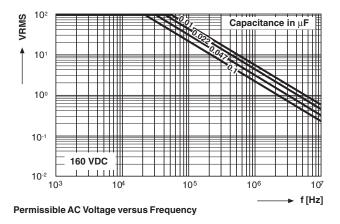


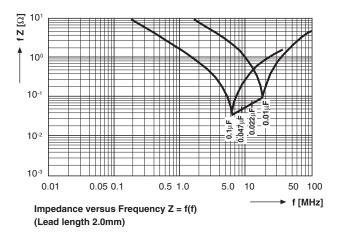
CAPACITANCE	CAPACITANCE CODE	VOLTAGE CODE 16 160 VDC/100 VAC			
		w	Н	L	
0.01µF	- 310	5.5	7.0	7.5	
0.015µF	- 315	5.5	7.0	7.5	
0.022µF	- 322	5.5	7.0	7.5	
0.033µF	- 333	7.5	9.0	7.5	
0.047µF	- 347	7.5	9.0	7.5	
0.068µF	- 368	7.5	9.0	7.5	
0.1µF	- 410	9.0	11.0	7.5	

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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