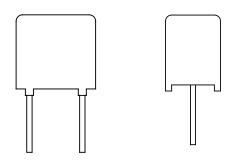


www.vishay.com

Vishay Roederstein

MKP1837

Metallized Polypropylene Film Capacitor Radial AC and Pulse Capacitor



FEATURES

- Mounting: radial
- Material categorization: for definitions of compliance please see <u>www.vishav.com/doc?99912</u>

APPLICATIONS

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

Maximum values

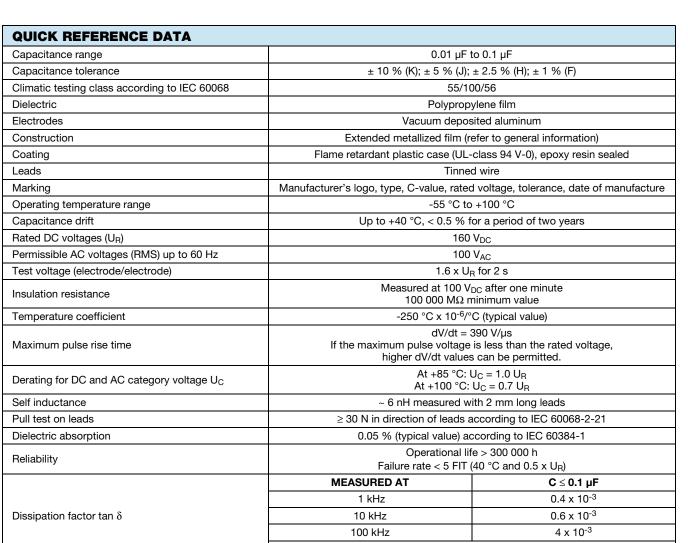


RoHS

COMPLIANT

<u>GREEN</u>

(5-2008)



Note

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

Revision: 27-Sep-2021

1

Not for New Designs - Alternative Device: MKP385

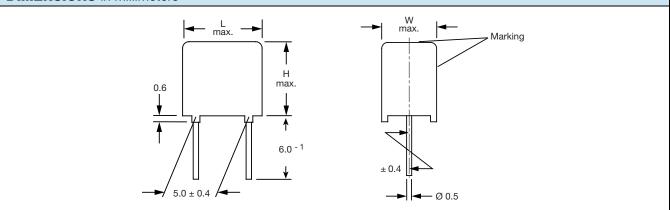


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DIMENSIONS in millimeters



ELECTRICAL DATA									
U _{RDC}	VOLTAGE CODE	CAP. (μF)	CAPACITANCE CODE	V _{AC}	DIMENSIONS W x H x L (mm)				
160	16	0.010	-310	100	5.5 x 7.0 x 7.5				
		0.015	-315		5.5 x 7.0 x 7.5				
		0.022	-322		5.5 x 7.0 x 7.5				
		0.033	-333		7.5 x 9.0 x 7.5				
		0.047	-347		7.5 x 9.0 x 7.5				
		0.068	-368		7.5 x 9.0 x 7.5				
		0.1	-410		9.0 x 11.0 x 7.5				

Note

• Further C-values upon request

RECOMMENDED PACKAGING								
LETTER CODE	TYPE OF PACKAGING	HEIGHT (H) (mm)	REEL DIAMETER / BOX SIZE (mm)	ORDERING CODE EXAMPLES	PCM 5			
D	Ammo	16.5	55 x 210 x 340	MKP1837-322-162-D	Х			
G	Ammo	18.5	55 x 210 x 340	MKP1837-322-162-G	Х			
F	Reel	16.5	350	MKP1837-322-162-F	Х			
W	Reel	18.5	350	MKP1837-322-162-W	Х			
_	Bulk	-	-	MKP1837-322-162	Х			

SPACE REQUIREMENTS FOR PRINTED-CIRCUIT BOARD APPLICATIONS AND DIMENSION TOLERANCES

For the maximum product dimensions and maximum space requirements for length (I_{max}), width (w_{max}) and height (h_{max}) following tolerances must be taken in account in the envelopment of the components as shown in the drawings below:

- For products with pitch \leq 15 mm, Δw = ΔI = 0.3 mm and Δh = 0.1 mm
- For products with 15 mm < pitch \leq 27.5 mm, $\Delta w = \Delta I = 0.5$ mm and $\Delta h = 0.1$ mm
- For products with pitch = 37.5 mm, $\Delta w = \Delta I = 0.7$ mm and $\Delta h = 0.5$ mm
- For products with pitch = 52.5 mm, $\Delta w = \Delta I = 1.0$ mm and $\Delta h = 0.5$ mm

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2

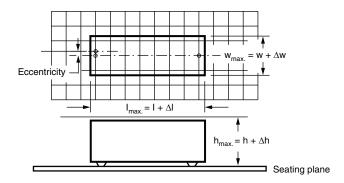


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Eccentricity defined as in drawing. The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned.

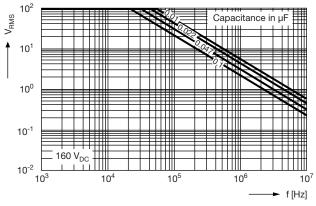


For the minimum product dimensions for length ($I_{min.}$), width ($w_{min.}$), and height ($h_{min.}$) following tolerances of the components are valid:

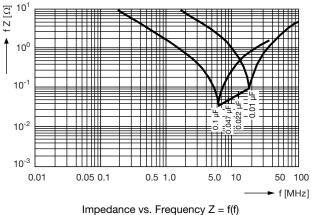
 $I_{min.} = I - \Delta I$, $w_{min.} = w - \Delta w$ and $h_{min.} = h - \Delta h$ following

- For products with pitch \leq 10 mm, Δl = 0.3 mm and Δw = Δh = 0.3 mm
- For products with pitch = 15 mm, ΔI = 0.5 mm and Δw = Δh = 0.5 mm
- For products with 15 mm < pitch \leq = 27.5 mm, Δl = 1.0 mm and Δw = Δh = 0.5 mm
- For products with pitch = 37.5 mm, ΔI = 1.0 mm and Δw = Δh = 1.0 mm
- For products with pitch = 52.5 mm, ΔI = 1.5 mm and Δw = Δh = 1.0 mm

CHARACTERISTICS



Permissible AC Voltage vs. Frequency



(Lead Length 2.0 mm)



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