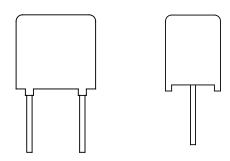


www.vishay.com

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

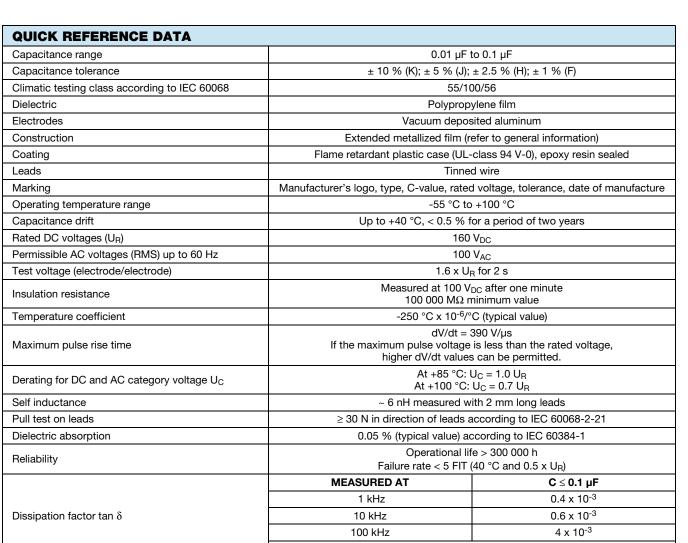


RoHS

COMPLIANT

<u>GREEN</u>

(5-2008)



#### Note

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

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## Not for New Designs - Alternative Device: MKP385

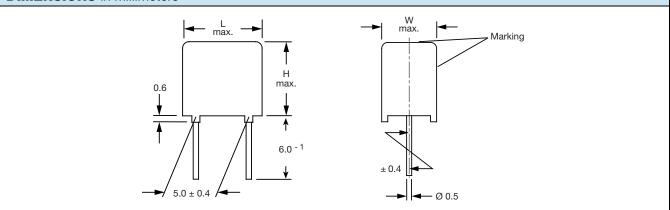


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#### **DIMENSIONS** in millimeters



ELECTRICAL DATA									
U <sub>RDC</sub>	VOLTAGE CODE	CAP. (μF)	CAPACITANCE CODE	V <sub>AC</sub>	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,  $\Delta w$  =  $\Delta I$  = 0.3 mm and  $\Delta h$  = 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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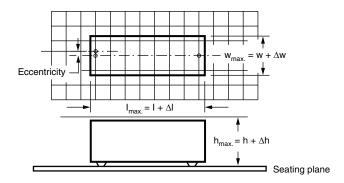


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Eccentricity defined as in drawing. The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned.

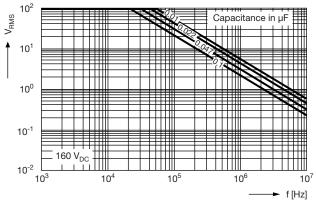


For the minimum product dimensions for length ( $I_{min.}$ ), width ( $w_{min.}$ ), and height ( $h_{min.}$ ) following tolerances of the components are valid:

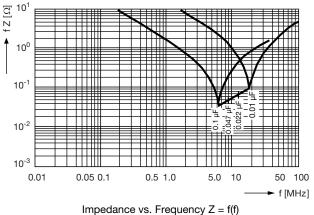
 $I_{min.} = I - \Delta I$ ,  $w_{min.} = w - \Delta w$  and  $h_{min.} = h - \Delta h$  following

- For products with pitch  $\leq$  10 mm,  $\Delta l$  = 0.3 mm and  $\Delta w$  =  $\Delta h$  = 0.3 mm
- For products with pitch = 15 mm,  $\Delta I$  = 0.5 mm and  $\Delta w$  =  $\Delta h$  = 0.5 mm
- For products with 15 mm < pitch  $\leq$  = 27.5 mm,  $\Delta l$  = 1.0 mm and  $\Delta w$  =  $\Delta h$  = 0.5 mm
- For products with pitch = 37.5 mm,  $\Delta I$  = 1.0 mm and  $\Delta w$  =  $\Delta h$  = 1.0 mm
- For products with pitch = 52.5 mm,  $\Delta I$  = 1.5 mm and  $\Delta w$  =  $\Delta h$  = 1.0 mm

### **CHARACTERISTICS**



Permissible AC Voltage vs. Frequency



(Lead Length 2.0 mm)



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