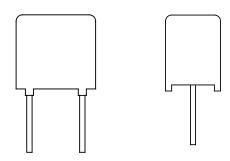


www.vishay.com

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

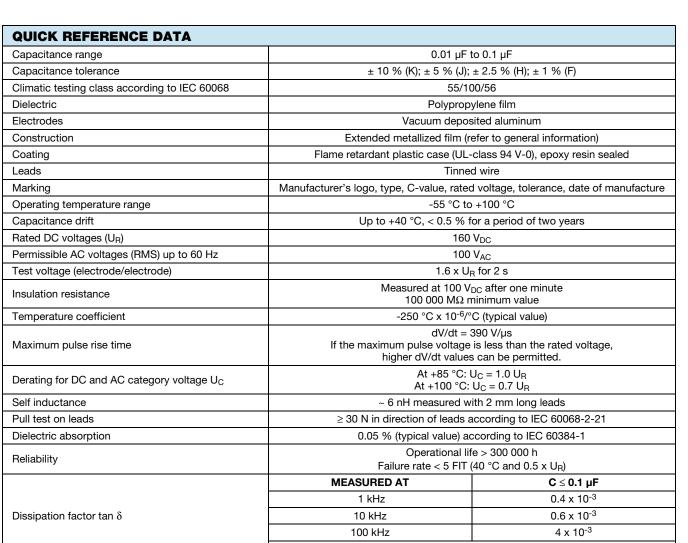


RoHS

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

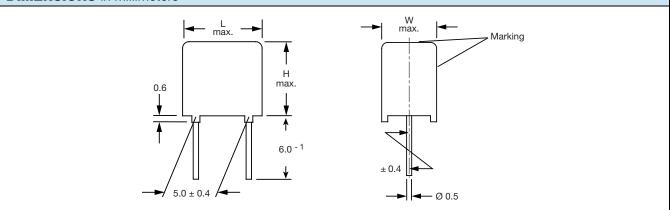


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DIMENSIONS in millimeters



| 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

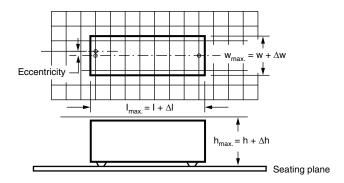


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Eccentricity defined as in drawing. The maximum eccentricity is smaller than or equal to the lead diameter of the product concerned.

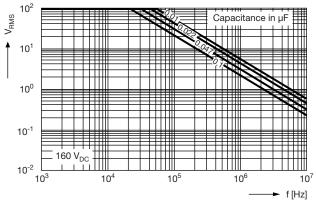


For the minimum product dimensions for length ($I_{min.}$), width ($w_{min.}$), and height ($h_{min.}$) following tolerances of the components are valid:

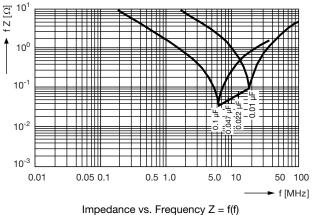
 $I_{min.} = I - \Delta I$, $w_{min.} = w - \Delta w$ and $h_{min.} = h - \Delta h$ following

- 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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