



# DATA SHEET

## Metallized polypropylene film capacitor Box-Type

### Serie: I39003

Code / Range **474= 0,47 $\mu$ f**

Code / Volt **631= 630VAC**

Width **32,0 mm**

Height **18,0 mm**

Thickness **9,0 mm**

Pitch **27,5 mm**

**Metallized polypropylene film  
capacitor Box-Type**

Serie No.: **I39003**

|       |        |      |        |        |        |           |           |          |            |           |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|-----------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 16.05.2011 | Customer: |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 1 from 4 |            |           |

# EDCON-COMPONENTS



## Features

- Metallized polypropylene structure
- excellent electric property
- Plastic case (UL94V-0), Epoxy resin sealing



Here:  $V_1 \geq 0$ ,  $V_2 \leq U_R$ ,  $V_{rms} = (V_2 - V_1) \div \sqrt{2}$ ,  $i_{rms} = 2\pi f \times C \times (V_2 - V_1) \div \sqrt{2}$   
 $U_R$  is the rated voltage of the capacitor

## Dimensions



## Specifications

|                                   |   |                               |                     |
|-----------------------------------|---|-------------------------------|---------------------|
| Reference Standard                | GB/T 10190 (IEC 60384-16)   |                               |                     |
| Climatic Category                 | 40/105/56   |                               |                     |
| Rated Temperature                 | +85°C   |                               |                     |
| Operating Temperature Range       | -40°C ~ +105°C  |                               |                     |
|                                   | (+85°C to +105°C ; decreasing factor 1,25% per °C for $V_R$ (dc)) |                               |                     |
| Rated Voltage                     | 450VDC  | 520VDC                        | 630VDC              |
| Capacitance Range                 | 0,068~8,2µF   | 0,047~6,8µF                   | 0,027~3,9µF         |
| Voltage Proof (Between Terminals) | 1.60 $U_R$ (5s)   |                               |                     |
| Capacitance Tolerance             | J=5% , K=10% , M=20%  |                               |                     |
| Dissipation Factor                | $\leq 10 \times 10^{-4}$ (1KHz, 20°C)                             |                               |                     |
| Insulation Resistance             | CR $\leq$ 0,33µF  | $\geq 75 \times 10^3 M\Omega$ | (20°C, 100V, 1min.) |
|                                   | CR $\geq$ 0,33µF  | $\geq 30000s$                 |                     |
| Pitch Width                       | from 10,0mm ~ 27,5mm  |                               |                     |

## Case Dimension table

| Case Code | W $\pm 0,4$ (mm) | H $\pm 0,4$ (mm) | T $\pm 0,4$ (mm) | P (mm) |
|-----------|------------------|------------------|------------------|--------|
| <b>A</b>  | 32,0             | 18,0             | 9,0              | 27,5   |

C  $\pm 0,5$  (mm)

Standard Length 18~26mm (Size by Size)

Short Lead 4,5mm

d  $\pm 0,05$  (mm)

d = 0,8mm

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Part No.: **I39003**

|       |        |      |        |        |        |           |           |          |            |           |
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# EDCON-COMPONENTS



## Ordering Informations

| Serie | Range | Tolerance | Voltage | Case Code | Pitch Code | Lead Style | Lead Length C | ROHS | Packing Code |  |
|-------|-------|-----------|---------|-----------|------------|------------|---------------|------|--------------|--|
|-------|-------|-----------|---------|-----------|------------|------------|---------------|------|--------------|--|

|               |   |            |          |            |          |          |          |           |          |           |
|---------------|---|------------|----------|------------|----------|----------|----------|-----------|----------|-----------|
| <b>I39003</b> | - | <b>474</b> | <b>M</b> | <b>631</b> | <b>A</b> | <b>B</b> | <b>N</b> | <b>LL</b> | <b>R</b> | <b>BU</b> |
|---------------|---|------------|----------|------------|----------|----------|----------|-----------|----------|-----------|

|                    |   |                    |                               |                  |                       |   |  |  |
|--------------------|---|--------------------|-------------------------------|------------------|-----------------------|---|--|--|
| <b>474=</b> 0,47µf | <b>M=</b> 20% Standard<br><b>K=</b> 10%<br><b>J=</b> 5% | <b>631=</b> 630VAC | <b>A=</b> look Case Dimension | <b>B=</b> 27,5mm | <b>N=</b> No function | <b>LL=</b> Long Lead (Standard)<br><b>45=</b> Lead Length 4,5mm | <b>R=</b> ROHS Conform<br><b>N=</b> NON ROHS Conform | <b>BU=</b> Bulk Ware<br><b>TB=</b> Tape Box<br><b>IV=</b> Individual Package |
|--------------------|---|--------------------|-------------------------------|------------------|-----------------------|---|--|--|

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Customer:



Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)



|   |               |
|---|---------------|
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| Part No.:   | <b>I39003</b> |
| Customer:   |               |

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