



# DATA SHEET

**Metallized polypropylene film A.C. capacitor for capacitive divider**

**Serie: I38003**

Code / Range **154= 0,15 $\mu$ f**

Code / Volt **271= 275VAC**

Width **17,5 mm**

Height **16,0 mm**

Thickness **10,0 mm**

Pitch **15,0 mm**

**Metallized polypropylene film  
A.C. capacitor for capacitive  
divider**

Serie No.: **I38003**

|       |        |      |        |        |        |           |           |      |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE | 15.05.2011 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. |      | 1 from 4   |

Customer:

# EDCON-COMPONENTS



## Features

This is specifically designed for applications in serial with the main i.e.: capacitive divider, for example, energy meter, LED driver etc.

Metallized polypropylene

Good self-healing properties, withstanding overvoltage stressing

Long stability of capacitance

Good properties in damp environment

Excellent active and passive flame resistant abilities.

## Dimensions

### Specifications

|   |   |             |              |  |
|---|---|-------------|--------------|--|
| Referance Standard  | GB/T 14579 (IEC 60384-17)   |             |              |  |
| Climatic Category   | 55/105/56   |             |              |  |
| Rated Temperature   | +85°C   |             |              |  |
| Operating Temperature Range   | -55°C ~ +105°C  |             |              |  |
|   | (+85°C to +105°C ; decreasing factor 1,25% per °C for V <sub>R</sub> (dc) |             |              |  |
| Rated Voltage   | 230VAC  | 250VAC      | 275VAC       |  |
| Maximum continious DC voltage   | 400VDC  | 560VDC      | 630VDC       |  |
| Capacitance Range   | 0,033~4,7µF   | 0,01~4,7µF  | 0,01~2,2µF   |  |
| Voltage Proof (Between Terminals)   | 640VDC (2s)   | 900VDC (2s) | 1500VDC (2s) |  |
| Capacitance Tolerance   | J=5% , K=10%, M=20%   |             |              |  |
| Disspation Factor   | ≤ 0,0020 ( 1KHz, 20°C)  |             |              |  |
| Insulation Resistance   | ≥ 15000MΩ, C <sub>R</sub> ≤0,33µF   |             |              |  |
|   | ≥ 5000s, C <sub>R</sub> ≤0,33µF ( 20°C, 100V, 1min)                       |             |              |  |
| Pitch Width   | from 7,5mm ~ 27,5mm   |             |              |  |
| Note: For long lifetime and continious working, please choose 275VAC and upwards voltage. |   |             |              |  |



### Case Dimension table

| Case Code | W ±0,4 (mm) | H ±0,4 (mm) | T ±0,4 (mm) | P (mm) |
|-----------|-------------|-------------|-------------|--------|
| <b>A</b>  | 17,5        | 16,0        | 10,0        | 15,0   |

C ±0,5 (mm)

Standard Length 18~26mm (Size by Size)

Short Lead 4,5mm

d ±0,05 (mm)

d = 0,8mm

**Metallized polypropylene film  
A.C. capacitor for capacitive  
divider**

Part No.: **I38003**

|       |        |      |        |        |        |           |           |      |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE | 15.05.2011 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. |      | 2 from 4   |
|       |        |      |        |        |        |           |           |      | Customer:  |

# EDCON-COMPONENTS



## Ordering Informations

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

|               |   |            |          |            |          |          |          |           |          |           |
|---------------|---|------------|----------|------------|----------|----------|----------|-----------|----------|-----------|
| <b>I38003</b> | - | <b>154</b> | <b>M</b> | <b>271</b> | <b>A</b> | <b>6</b> | <b>N</b> | <b>LL</b> | <b>R</b> | <b>BU</b> |
|---------------|---|------------|----------|------------|----------|----------|----------|-----------|----------|-----------|

|                    |                           |                    |                                  |                  |                          |                                       |                                  |                                  |
|--------------------|---------------------------|--------------------|----------------------------------|------------------|--------------------------|---------------------------------------|----------------------------------|----------------------------------|
| <b>154=</b> 0,15µf | <b>M=</b> 20%<br>Standard | <b>271=</b> 275VAC | <b>A=</b> look Case<br>Dimension | <b>6=</b> 15,0mm | <b>N=</b> No<br>function | <b>LL=</b> Long<br>Lead<br>(Standard) | <b>R=</b> ROHS<br>Conform        | <b>BU=</b> Bulk<br>Ware          |
|                    | <b>K=</b> 10%             |                    |                                  |                  |                          | <b>45=</b> Lead<br>Length<br>4,5mm    | <b>N=</b> NON<br>ROHS<br>Conform | <b>TB=</b> Tape<br>Box           |
|                    | <b>J=</b> 5%              |                    |                                  |                  |                          |                                       |                                  | <b>IV=</b> Individual<br>Package |

**Metallized polypropylene film  
A.C. capacitor for capacitive  
divider**

Part No.: **I38003**

|       |        |      |        |        |        |           |           |      |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE | 15.05.2011 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. |      | 3 from 4   |

Customer:



Soldering Profile Curve

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



**Metalized polypropylene film  
A.C. capacitor for capacitive  
divider**

Part No.: **I38003**

|       |        |      |        |        |        |           |           |          |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 15.05.2011 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 4 from 4 | Customer:  |