



# DATA SHEET

**Double sided metallized polypropylene film capacitor Box**

**Serie: I42003**

Code / Range **223= 0,022µf**

Code / Volt **631= 630VDC**

Width **17,5 mm**

Height **11,0 mm**

Thickness **5,0 mm**

Pitch **15,0 mm**

**Double sided metallized  
polypropylene film capacitor  
Box**

Serie No.: **I42003**

|       |        |      |        |        |        |           |       |           |            |           |
|-------|--------|------|--------|--------|--------|-----------|-------|-----------|------------|-----------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason | DATE      | 26.05.2011 | Customer: |
| APPD: | Schumi |      |        | FINISH | Jamy   |           |       | Sheet No. | 1 from 4   |           |

# EDCON-COMPONENTS



## Features

Doublesided metallized polypropylen structure  
Low loss and small inherent temperature rise  
Negative temperature coefficient of capacitance  
Excellent active and passive flame resistance circuit

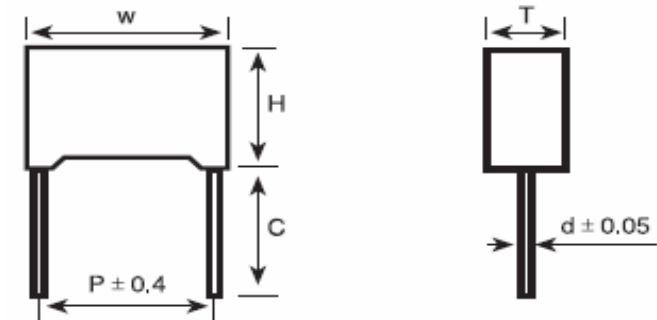
## Applications

widely used in high voltage, high frequency and pulse circuit  
Deflection circuits in TV-sets ( S-correction and fly back tuning ) and monitors  
Lamp capacitor for electronic ballast and compact lamps  
SNUBBER and SCR commutating circuits

## Specifications

|                                   |                                                                                                                                                                        |                   |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Reference Standard                | GB/T 10190 (IEC 60384-16)                                                                                                                                              |                   |
| Climatic Category                 | 40/105/56                                                                                                                                                              |                   |
| Rated Temperature                 | . +85°C for V <sub>R</sub> (dc); 75°C for V <sub>R</sub> (ac)                                                                                                          |                   |
| Operating Temperature Range       | . -40°C ~ +105°C<br>(+85°C to +105°C ; decreasing factor 1,25% per °C for V <sub>R</sub> (dc) (+75°C to +105°C: decreasing factor 1,35% per °C for V <sub>R</sub> (ac) |                   |
| Rated Voltage                     | 250V, 400V, 630V, 1000V, 1600V, 2000V                                                                                                                                  |                   |
| Capacitance Range                 | 0,00022 ~ 3,9μF                                                                                                                                                        |                   |
| Voltage Proof (Between Terminals) | 1.60U <sub>R</sub> (5s)                                                                                                                                                |                   |
| Capacitance Tolerance             | G=2%, H=3%, J=5% , K=10%, M=20%                                                                                                                                        |                   |
| Dissipation Factor                | ≤ 0,0010 (1kHz, 20°C)                                                                                                                                                  |                   |
| Insulation Resistance             | ≥ 50000MΩ C <sub>R</sub> ≤0,33μF                                                                                                                                       | (20°C, 100V, 1min |
|                                   | ≥ 15000s C <sub>R</sub> >0,33μF                                                                                                                                        |                   |

## Dimensions



## Case Dimension table

| Case Code   | W ±0,4 (mm) | H ±0,4 (mm) | T ±0,4 (mm) | P (mm) |
|-------------|-------------|-------------|-------------|--------|
| <b>A</b>    | 17,5        | 11,0        | 5,0         | 15,0   |
| C ±0,5 (mm) |             |             |             |        |

Standard Length 18~26mm (Size by Size)

Short Lead 4,5mm

d ±0,05 (mm)

d= 0,8mm

**Double sided metallized  
polypropylene film capacitor  
Box**

Part No.: **I42003**

|       |        |      |        |        |        |           |           |          |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 26.05.2011 |
| 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>I42003</b> | - | <b>223</b> | <b>M</b> | <b>631</b> | <b>A</b> | <b>6</b> | <b>N</b> | <b>LL</b> | <b>R</b> | <b>BU</b> |
|---------------|---|------------|----------|------------|----------|----------|----------|-----------|----------|-----------|

|                      |                            |                        |                                   |                   |                           |                                        |                                   |                                   |
|----------------------|----------------------------|------------------------|-----------------------------------|-------------------|---------------------------|----------------------------------------|-----------------------------------|-----------------------------------|
| <b>223</b> = 0,022µf | <b>M</b> = 20%<br>Standard | <b>631</b> =<br>630VDC | <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 |
|                      | <b>H</b> = 3%              |                        |                                   |                   |                           |                                        |                                   |                                   |
|                      | <b>G</b> = 2%              |                        |                                   |                   |                           |                                        |                                   |                                   |

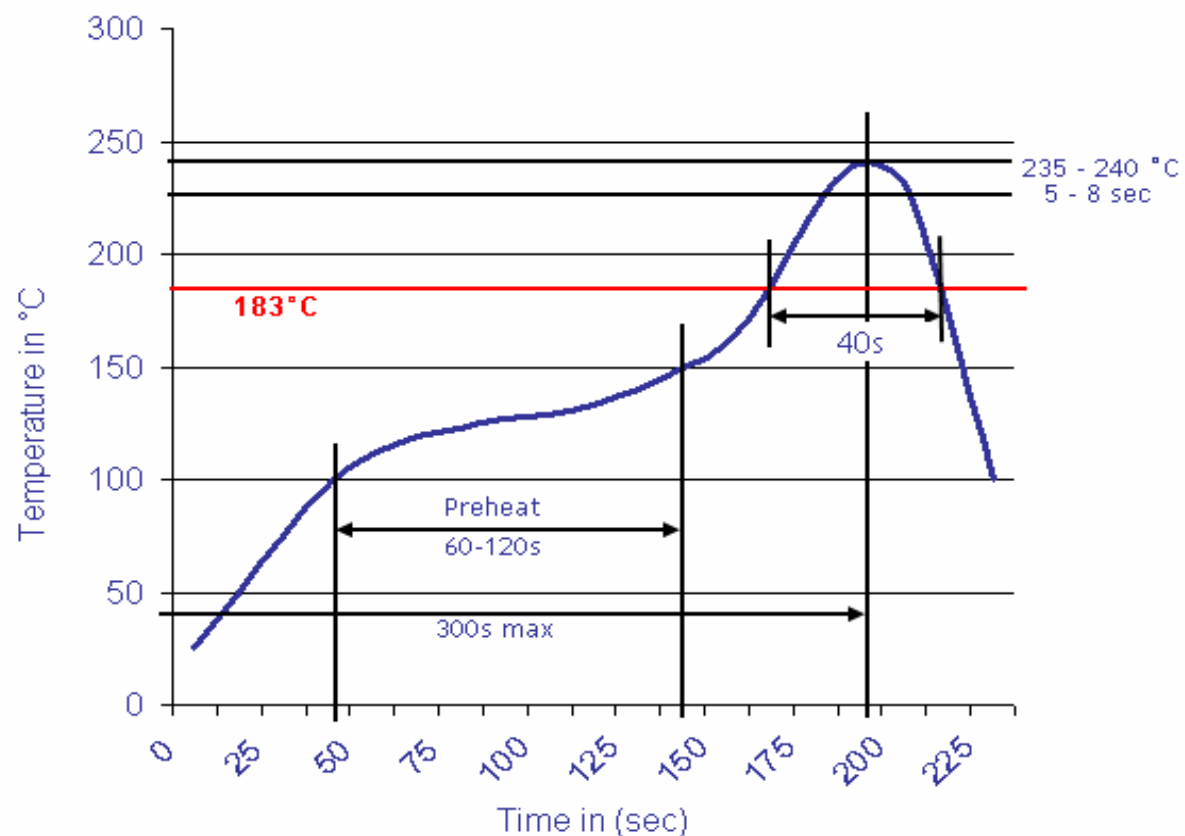
|                                                                         |               |
|-------------------------------------------------------------------------|---------------|
| <b>Double sided metallized<br/>polypropylene film capacitor<br/>Box</b> |               |
| Part No.:                                                               | <b>I42003</b> |
| Customer:                                                               |               |

|       |        |      |        |        |        |           |           |      |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE | 26.05.2011 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. |      | 3 from 4   |



## Soldering Profile Curve

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



**Double sided metallized  
polypropylene film capacitor  
Box**

Part No.: **I42003**

|       |        |      |        |        |        |           |           |          |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 26.05.2011 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 4 from 4 |            |

Customer:

email:info@edcon-components.com