



# DATA SHEET

**Metallized polyester film capacitor Box-Type**

**Serie: I43001**

Code / Range **183= 0,018 $\mu$ f**

Code / Volt **630= 63VDC**

Width **7,2 mm**

Height **6,5 mm**

Thickness **2,5 mm**

Pitch **5,0 mm**

**Metallized polyester film  
capacitor Box-Type**

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|       |        |      |        |        |        |           |           |          |            |           |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|-----------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 25.05.2011 | Customer: |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 1 from 4 |            |           |

# EDCON-COMPONENTS



## Features

Metallized polyester film, stacked construction  
 Plastic case (UL94V-0), Epoxy resin sealing  
 High dv/dt ability

## Applications

By-passing, blocking, coupling decoupling  
 Pulse logic, timing, oscillator circuits  
 Invert for LCD monitors, automotive DC motor suppression

## Specifications

|                                   |  |                                    |                        |
|-----------------------------------|--|------------------------------------|------------------------|
| Reference Standard                | GB/T 7332 (IEC 60384-2)  |                                    |                        |
| Climatic Category                 | 55/125/56  |                                    |                        |
| Rated Temperature                 | +85°C  |                                    |                        |
| Operating Temperature Range       | -55°C ~ +125°C   |                                    |                        |
|                                   | (+85°C to +125°C ; decreasing factor 1,25% per °C for V <sub>R</sub> (dc)) |                                    |                        |
| Rated Voltage                     | 63, 100, 250, 400, 500, 630, 700Volt                                       |                                    |                        |
| Capacitance Range                 | 0,0010 ~ 2,2μF   |                                    |                        |
| Voltage Proof (Between Terminals) | 1.60U <sub>R</sub> (5s)  |                                    |                        |
| Capacitance Tolerance             | J=5% , K=10%, M=20%  |                                    |                        |
| Dissipation Factor                | Frequency  | C <sub>R</sub> ≤ 0,1μF             | C <sub>R</sub> > 0,1μF |
|                                   | 1kHz   | ≤ 1,0%                             | ≤ 1,0%                 |
|                                   | 10kHz  | ≤ 1,5%                             | ≤ 1,5%                 |
|                                   | 100kHz   | ≤ 3,0%                             | ----                   |
| Insulation Resistance             | U <sub>R</sub> > 100V  | ≥ 30000MΩ, C <sub>R</sub> ≤ 0,33μF | (20°C, 100V, 1min)     |
|                                   |  | ≥ 10000MΩ, C <sub>R</sub> > 0,33μF |                        |
|                                   | U <sub>R</sub> ≤ 100V  | ≥ 15000MΩ, C <sub>R</sub> ≤ 0,33μF | (20°C, 10V, 1min)      |
|                                   |  | ≥ 5000s, C <sub>R</sub> > 0,33μF   |                        |

## Maximum Pulse Rise Time

| U <sub>R</sub> (V) | dV/dt (V/μs) A-Case | dV/dt (V/μs) B-Case |
|--------------------|---------------------|---------------------|
| 63V                | 250                 | 75                  |
| 100                | 300                 | 85                  |
| 250                | 400                 | 100                 |
| 400                | 600                 | 150                 |
| 500                | 700                 | 200                 |
| 630                | 800                 | 200                 |
| 700                | ----                | 250                 |

## Dimensions



## Case Dimension table

| Case Code | W ±0,4 (mm) | H ±0,4 (mm) | T ±0,4 (mm) | P (mm) |
|-----------|-------------|-------------|-------------|--------|
| <b>A</b>  | 7,2         | 6,5         | 2,5         | 5,0    |

C ±0,5 (mm)

Standard Length 18~22mm (Size by Size)

Short Lead 4,5mm

d ±0,05 (mm)

d = 0,5mm

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Part No.: **I43001**

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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>I43001</b> | - | <b>183</b> | <b>M</b> | <b>630</b> | <b>A</b> | <b>2</b> | <b>N</b> | <b>LL</b> | <b>R</b> | <b>BU</b> |
|---------------|---|------------|----------|------------|----------|----------|----------|-----------|----------|-----------|

|                     |   |                   |                               |                 |                       |   |  |  |
|---------------------|---|-------------------|-------------------------------|-----------------|-----------------------|---|--|--|
| <b>183=</b> 0,018µf | <b>M=</b> 20% Standard<br><b>K=</b> 10%<br><b>J=</b> 5% | <b>630=</b> 63VDC | <b>A=</b> look Case Dimension | <b>2=</b> 5,0mm | <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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Soldering Profile Curve

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



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Customer: