



# DATA SHEET

## Metallized Polyester Film Capacitor BOX-Type

### Serie: I18014

|                |             |  |
|----------------|-------------|--|
| Width (mm)     | <b>17,5</b> | Range <b>105= 1,0<math>\mu</math>f</b> |
| Height (mm)    | <b>11,0</b> | Voltage <b>101= 100VDC</b>             |
| Thickness (mm) | <b>5,0</b>  |  |
| Pitch (mm)     | <b>15,0</b> |  |

**Metallized Polyester Film  
Capacitor BOX-Type**

Serie No.: **I18014**

Customer:

|       |        |      |        |        |        |           |           |          |            |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|
| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 30.04.2011 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 1 from 4 |            |

# EDCON-COMPONENTS



## Applications

By-passing, blocking, coupling, decoupling  
 Pulse, logic, timing, oscillator circuits  
 Interference suppression in low voltage application (i.e. automotive)

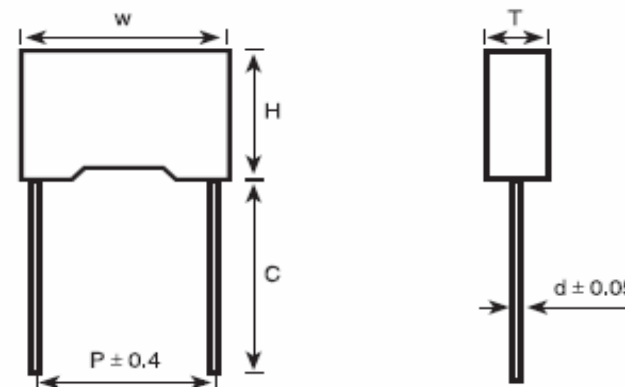
## Specifications

|  |   |                                       |        |            |        |           |           |          |            |
|--|---|---------------------------------------|--------|------------|--------|-----------|-----------|----------|------------|
| Reference Standard   | GB/T 7332 (IEC 60384-2)   |                                       |        |            |        |           |           |          |            |
| Climatic Category  | 55/105/56   |                                       |        |            |        |           |           |          |            |
| Rated Voltage  | 85°C  |                                       |        |            |        |           |           |          |            |
| Operating Temperature  | -55°C ~ 105°C (+85°C ~ +105°C: decreasing factor 1,25% per °C for Vr(dc)) |                                       |        |            |        |           |           |          |            |
| Rated Voltage  | 63V, 100V, 160V, 250V, 400V, 630V,  |                                       |        |            |        |           |           |          |            |
| Capacitance Range  | 0,00033µF~ 33,0µF   |                                       |        |            |        |           |           |          |            |
| Capacitance Tolerance  | ± 5%(J) , ±10%(K), ±20%(M)  |                                       |        |            |        |           |           |          |            |
| Voltage Proof  | 1,6Ur (5s)  |                                       |        |            |        |           |           |          |            |
| Dissipation Factor   | Frequency   | Cr ≤ 0,1µF                            |        | Cr ≤ 0,1µF |        |           |           |          |            |
|  | 1KHz  | ≤ 1,0%                                |        | ≤ 1,0%     |        |           |           |          |            |
|  | 10KHz   | ≤ 1,5%                                |        | ≤ 1,5%     |        |           |           |          |            |
|  | 100KHz  | ≤ 3,0%                                |        |            |        |           |           |          |            |
| Insulation Resistance  | Ur > 100V   | ≥30000MΩ, CR≤0,33µF                   |        |            |        |           |           |          |            |
|  | Ur ≤ 100V   | ≥15000MΩ, CR≤0,33µF (20°C,100V,1min.) |        |            |        |           |           |          |            |
| Maximum Pulse Rise Time (dV/dt): If the working voltage (U) is lower than the rated voltage (Ur), the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the right value with Ur/U. | Ur(V)   | dV/dt (V/µs)                          |        |            |        |           |           |          |            |
|  | Pitch   | 7,5                                   | 10,0   | 15,0       | 22,5   | 27,5      |           |          |            |
|  | 63  | 7,5                                   | 6      | 3          | 2      | 1         |           |          |            |
|  | 100   | 15                                    | 9      | 5          | 3      | 2         |           |          |            |
|  | 250   | 30                                    | 20     | 12         | 8      | 5         |           |          |            |
|  | 400   | 40                                    | 30     | 20         | 10     | 7         |           |          |            |
| 630  | 50  | 40                                    | 25     | 12         | --     |           |           |          |            |
| DRW:   | Jason   | CHKD                                  | Wilson | MATL:      | Wilson | TOLERANCE | Mason     | DATE     | 30.04.2011 |
| APPD:  | Schumi  |                                       |        | FINISH     | Jamy   |           | Sheet No. | 2 from 4 | Customer:  |

## Features

High reliability  
 Metallized polyester Film,  
 Non inductive winding construction  
 Plastic Case (UL94V-0) epoxy resin

## Dimensions ( mm )



|           |      |
|-----------|------|
| Case Size | A    |
| W= ±0,4   | 17,5 |
| H= ±0,4   | 11,0 |
| T= ±0,4   | 5,0  |
| P= ±0,4   | 15,0 |

**Metallized Polyester Film  
 Capacitor BOX-Type**

Part No.: **I18014**

# EDCON-COMPONENTS



## Ordering Informations

| Serie | Range | Tolerance | Voltage | Case Size Code | Lead Length | Special function | ROHS | Packing Code |  |  |
|-------|-------|-----------|---------|----------------|-------------|------------------|------|--------------|--|--|
|-------|-------|-----------|---------|----------------|-------------|------------------|------|--------------|--|--|

|               |            |          |            |          |           |          |          |           |  |  |
|---------------|------------|----------|------------|----------|-----------|----------|----------|-----------|--|--|
| <b>I18014</b> | <b>105</b> | <b>M</b> | <b>101</b> | <b>A</b> | <b>LL</b> | <b>N</b> | <b>R</b> | <b>BU</b> |  |  |
|---------------|------------|----------|------------|----------|-----------|----------|----------|-----------|--|--|

|                   |               |                    |                               |                       |                       |                            |                           |
|-------------------|---------------|--------------------|-------------------------------|-----------------------|-----------------------|----------------------------|---------------------------|
| <b>105=</b> 1,0µf | <b>M=</b> 20% | <b>101=</b> 100VDC | <b>A=</b> Look Size Dimension | <b>LL=</b> Long Lead  | <b>N=</b> No function | <b>R=</b> ROHS Conform     | <b>BU=</b> Bulk Ware      |
|                   | <b>K=</b> 10% |                    |                               | <b>L4=</b> ca. 3,50mm |                       | <b>N=</b> NON ROHS Conform | <b>TA=</b> Tape Ammo Pack |
|                   | <b>J=</b> 10% |                    |                               |                       |                       | <b>TR=</b> Tape Reel       |                           |

|   |               |
|---|---------------|
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Soldering Profile Curve

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



|   |               |
|---|---------------|
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| DRW:  | Jason  | CHKD | Wilson | MATL:  | Wilson | TOLERANCE | Mason     | DATE     | 30.04.2011 |
| APPD: | Schumi |      |        | FINISH | Jamy   |           | Sheet No. | 4 from 4 |            |