



DATA SHEET

Metallized Polyester Film Capacitor BOX-Type

Serie: I18014

| | | |
|----------------|-------------|----------------------------|
| Width (mm) | 17,5 | Range 474= 0,47µf |
| Height (mm) | 13,5 | Voltage 401= 400VDC |
| Thickness (mm) | 7,5 | |
| Pitch (mm) | 15,0 | |

**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)

Features

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

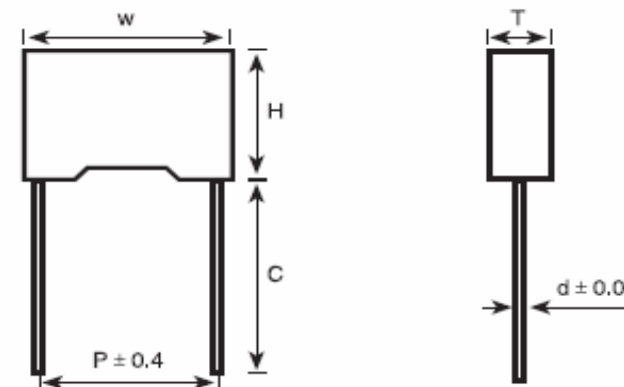
Specifications

| | | | |
|-----------------------|--|---|------------|
| 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: decaing 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 ≥10000s, CR≥0,33µF | |
| | Ur ≤ 100V | ≥15000MΩ, CR≤0,33µF (20°C,100V,1min.) ≥5000s, CR≥0,33µF (20°C,10V,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 | -- | |

Dimensions (mm)



| | |
|-----------|------|
| Case Size | A |
| W= ±0,4 | 17,5 |
| H= ±0,4 | 13,5 |
| T= ±0,4 | 7,5 |
| P= ±0,4 | 15,0 |

Metallized Polyester Film Capacitor BOX-Type

Part No.: **I18014**

| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 30.04.2011 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | | 2 from 4 |

Customer: email: info@edcon-components.com

www.edcon-components.com

EDCON-COMPONENTS



Ordering Informations

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

| | | | | | | | | | | |
|---------------|---|------------|----------|------------|----------|-----------|----------|----------|-----------|--|
| I18014 | - | 474 | M | 401 | A | LL | N | R | BU | |
|---------------|---|------------|----------|------------|----------|-----------|----------|----------|-----------|--|

| | | | | | | | |
|--------------------|-----------------------|--------------------|-------------------------------|----------------------------|-----------------------|------------------------|----------------------|
| 474= 0,47µf | M= 20% | 401= 400VDC | A= Look Size Dimension | LL= Long Lead | N= No function | R= ROHS Conform | BU= Bulk Ware |
| K= 10% | L4= ca. 3,50mm | | | N= NON ROHS Conform | | | |
| J= 10% | | | | | TR= Tape Reel | | |

| | |
|---|---------------|
| Metallized Polyester Film Capacitor BOX-Type | |
| Part No.: | I18014 |
| Customer: | |

| | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|------|------------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 30.04.2011 |
| APPD: | Schumi | | | FINISH | Jamy | | Sheet No. | | 3 from 4 |



Soldering Profile Curve

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



| | |
|---|---------------|
| Metallized Polyester Film Capacitor BOX-Type | |
| Part No.: | I18014 |
| Customer: | |

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