



DATA SHEET

Metallized polyester film capacitor Box-Type

Serie: I44003

Code / Range **105= 1,0 μ f**

Code / Volt **251= 250VDC**

Width **17,5 mm**

Height **13,5 mm**

Thickness **7,5 mm**

Pitch **15,0 mm**

**Metallized polyester film
capacitor Box-Type**

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| | | | | | | | | | | |
|-------|--------|------|--------|--------|--------|-----------|-----------|----------|------------|-----------|
| DRW: | Jason | CHKD | Wilson | MATL: | Wilson | TOLERANCE | Mason | DATE | 08.06.2011 | Customer: |
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Features

- High reliability
- Metallized Polyester film, non-inductive wound construction
- Plastic case (UL94V-0) Epoxy resin sealing

Applications

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

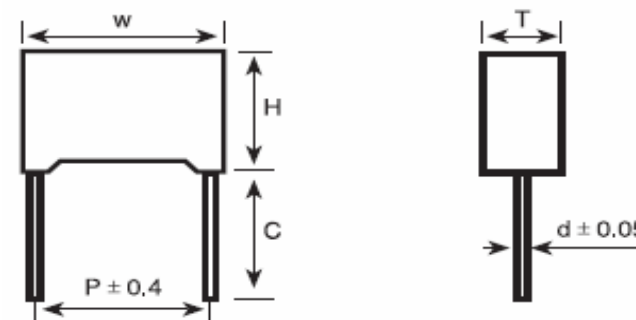
Specifications

| | | | |
|-----------------------------------|--|------------------------------------|------------------------|
| Reference Standard | GB/T 7332 (IEC 60384-2) | | |
| Climatic Category | 55/105/56 | | |
| Rated Temperature | +85°C | | |
| Operating Temperature Range | -55°C ~ +105°C | | |
| | (+85°C to +105°C ; decreasing factor 1,25% per °C for V _R (dc)) | | |
| Rated Voltage | 63, 100, 160, 250, 400, 630 Volt | | |
| Capacitance Range | 0,0033 ~ 33μF | | |
| Voltage Proof (Between Terminals) | 1.60U _R (5s) | | |
| Capacitance Tolerance | J=5% , K=10%, M=20% | | |
| Dissipation Factor | Frequency | C _R ≤ 0,1μF | C _R > 0,1μF |
| | 1kHz | ≤ 1,0% | ≤ 1,0% |
| | 10kHz | ≤ 1,5% | ≤ 1,5% |
| | 100kHz | ≤ 3,0% | ---- |
| Insulation Resistance | U _R > 100V | ≥ 30000MΩ, C _R ≤ 0,33μF | (20°C, 100V, 1min) |
| | | ≥ 10000MΩ, C _R > 0,33μF | |
| | U _R ≤ 100V | ≥ 15000MΩ, C _R ≤ 0,33μF | (20°C, 10V, 1min) |
| | | ≥ 5000s, C _R > 0,33μF | |

Maximum Pulse Rise Time

| U _R (V) | dV/dt (V/μs) A-Case | | | | | |
|--------------------|---------------------|-----|----|----|------|------|
| | Pitch | 7,5 | 10 | 15 | 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



Case Dimension table

| Case Code | W ± 0,4 (mm) | H ± 0,4 (mm) | T ± 0,4 (mm) | P (mm) |
|-----------|--------------|--------------|--------------|--------|
| A | 17,5 | 13,5 | 7,5 | 15,0 |

C ± 0,5 (mm)

Standard Length 18~22mm (Size by Size)

Short Lead 4,5mm

d ± 0,05 (mm)

d = 0,8mm

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Ordering Informations

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

| | | | | | | | | | | |
|---------------|------------|----------|------------|----------|----------|----------|-----------|----------|-----------|--|
| I44003 | 105 | M | 251 | A | 6 | N | LL | R | BU | |
|---------------|------------|----------|------------|----------|----------|----------|-----------|----------|-----------|--|

| | | | | | | | | |
|-------------------|---|--------------------|-------------------------------|------------------|-----------------------|---|--|--|
| 105= 1,0µf | M= 20% Standard K= 10% J= 5% | 251= 250VDC | A= look Case Dimension | 6= 15,0mm | N= No function | LL= Long Lead (Standard) 45= Lead Length 4,5mm | R= ROHS Conform N= NON ROHS Conform | BU= Bulk Ware TB= Tape Box IV= Individual Package |
|-------------------|---|--------------------|-------------------------------|------------------|-----------------------|---|--|--|

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Soldering Profile Curve

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



| | |
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