

- Excellent return loss and balance
- Surface mount or through hole package
- Supplementary Insulation

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

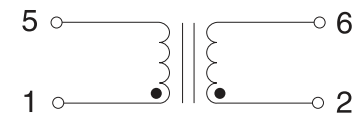
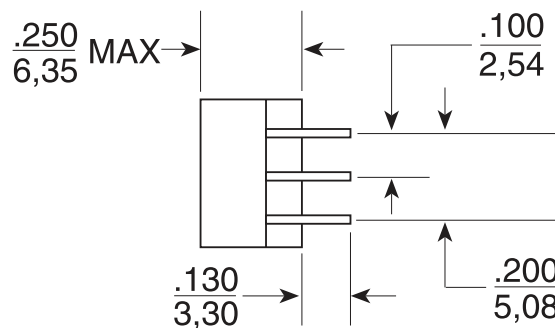
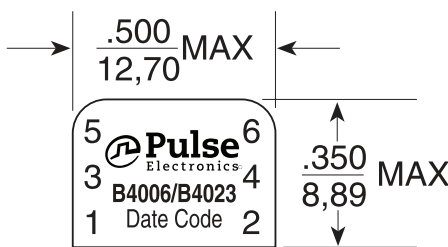
| Part Number | Turns Ratio | Insertion Loss (dB MAX) | Return Loss (dB MIN) | Longitudinal Balance (dB TYP) | Isolation Voltage (Vrms) |
|-------------|-------------|--------------------------|-----------------------|-------------------------------|--------------------------|
| B4006 (THT) | 1:1 | 200 kHz to 400 MHz: 0.75 | 200 kHz to 18 MHz: 20 | 200 kHz: 60 | 3000 |
| | | 400 kHz to 30 MHz: 0.50 | 18 kHz to 30 MHz: 14 | 11 MHz: 50 | |
| | | | | 100 MHz: 40 | |
| B4023 (THT) | 1:1CT | 200 kHz to 20 MHz: 0.50 | 200 kHz to 18 MHz: 20 | 200 kHz: 60 | 3000 |
| | | 20 kHz to 30 MHz: 0.75 | 18 kHz to 30 MHz: 14 | 11 MHz: 50 | |
| | | | | 100 MHz: 40 | |
| B4004 (SHT) | 1CS:1CS | 20 kHz to 11 MHz: 1.00 | 200 kHz: 10 | 200 kHz: 50 | 1500 |
| | | | 400 kHz: 16 | 2 MHz: 40 | |
| | | | 4 MHz: 16 | 11 MHz: 40 | |
| | | | 11 MHz: 10 | | |

Notes: Temperature range: -40°C to +80°C. Insertion loss increases by up to 1 dB at the extreme temperatures. Impedance for test: 100 Ω or 135 Ω. Small difference in return loss will occur. **Surge Voltage Capability:** Metallic 800 Vpeak 10/560 μsec. Longitudinal: 2400 Vpeak 10/700 sec. Products are designed to meet the requirements for supplementary isolation according to IEC950. Common Mode Chokes to reduce common mode ingress from AM Broadcast or HAM Radios are available. See data sheet B912 for parts B4001 and B4003.

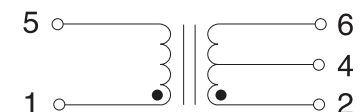
Mechanical

Schematics

B4006 / B4023



B4006



B4023

Weight1.2 grams

Tube60/tube

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

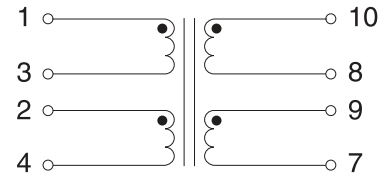
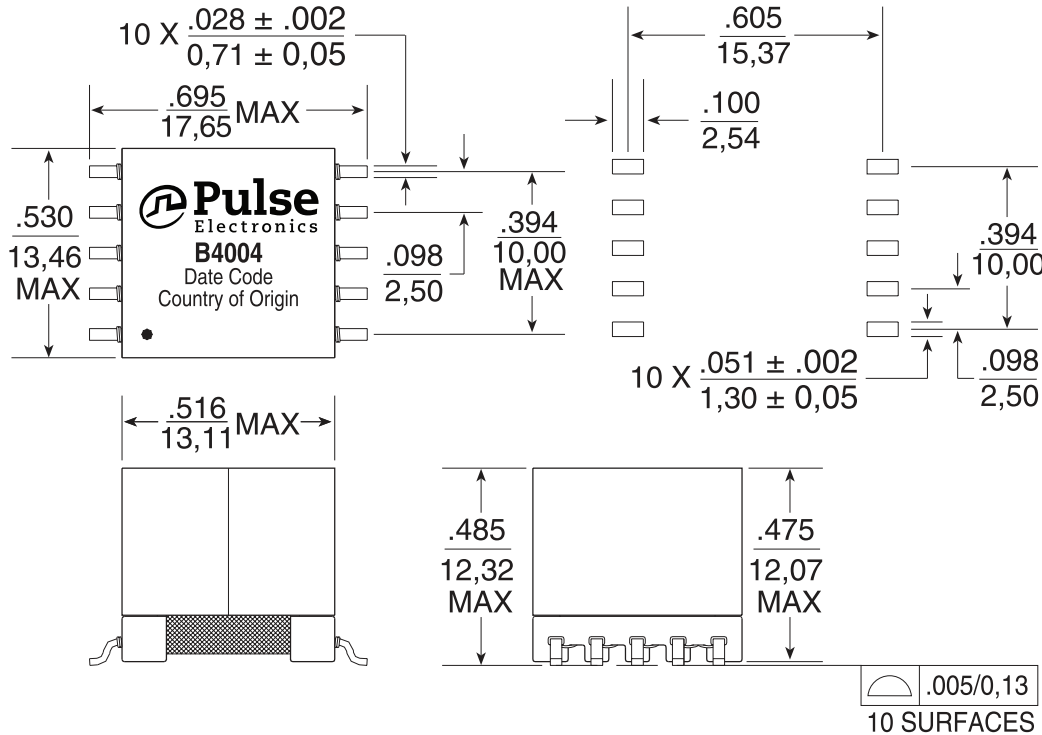
Notes: Leads are 24 AWG solderable. Unused pins not provided.

VDSL Transformers

Mechanical (continued)

Schematic

B4004



Weight6.2 grams

Tray60/tray

Dimensions: Inches
mm

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$

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