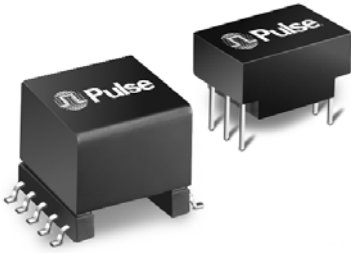





# VDSL TRANSFORMERS



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

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

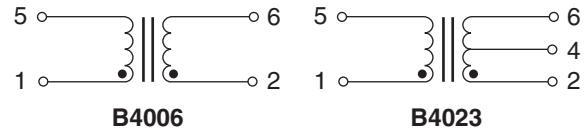
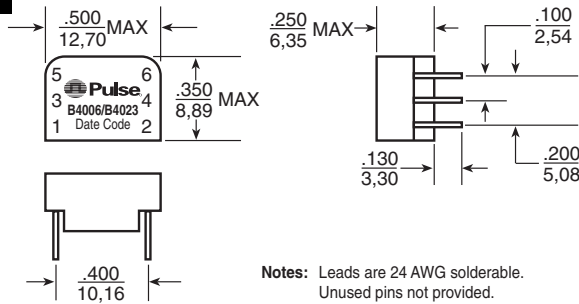
Part Number	Turns Ratio	Insertion Loss (dB MAX)	Return Loss (dB MIN)	Longitudinal Balance (dB TYP)	Isolation Voltage (Vrms)
B4006 (THT)	1:1	200 kHz to 400 kHz: 0.75	200 kHz to 18 MHz: 20	200 kHz: 60	3000
		400 kHz to 30 MHz: 0.50	18 MHz to 30 MHz: 14	11 MHz: 50 100 MHz: 40	
B4023 (THT)	1:1CT	200 kHz to 20 MHz: 0.50	200 kHz to 18 MHz: 17	200 kHz: 60	3000
		20 MHz to 30 MHz: 0.75	18 MHz to 30 MHz: 13	11 MHz: 50 100 MHz: 40	
B4004 (SMT)	1CS:1CS	200 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 usec. Longitudinal: 2400 Vpeak 10/700 usec. 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.

## Mechanicals

## Schematics

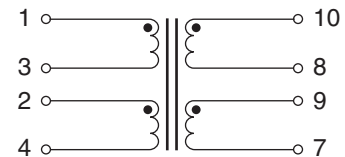
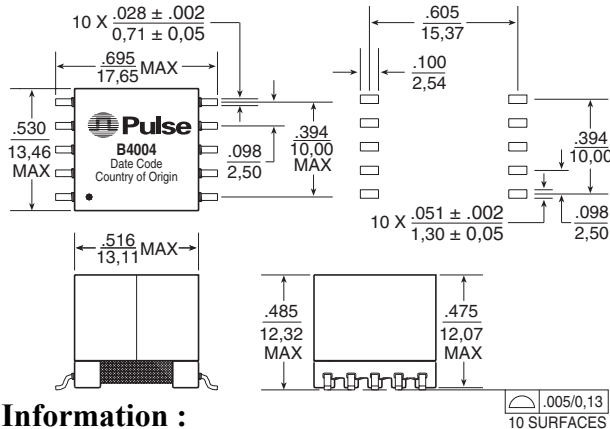
### B4006/B4023



**Weight**.....1.2 grams  
**Tube**.....60/tube

**Dimensions:**  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

### B4004



**Weight**.....6.2 grams  
**Tray** .....60/tray

**Dimensions:**  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

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