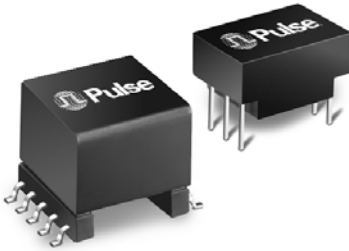


VDSL TRANSFORMERS



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

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

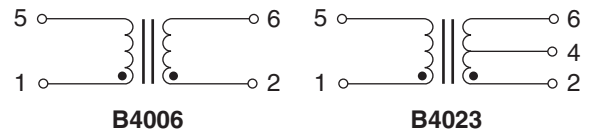
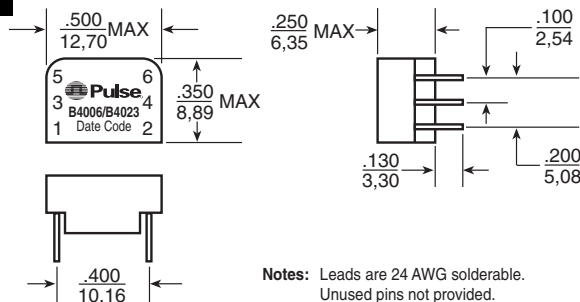
Part Number	Turns Ratio	Insertion Loss (dB MAX)	Return Loss (dB MIN)	Longitudinal Balance (dB TYP)	Isolation Voltage (Vrms)
B4006 (THT)	1:1	200 kHz to 400 kHz: 0.75	200 kHz to 18 MHz: 20	200 kHz: 60	3000
		400 kHz to 30 MHz: 0.50	18 MHz to 30 MHz: 14	11 MHz: 50	
B4023 (THT)	1:1CT	200 kHz to 20 MHz: 0.50	200 kHz to 18 MHz: 17	100 MHz: 40	
		20 MHz to 30 MHz: 0.75	18 MHz to 30 MHz: 13	200 kHz: 60	3000
				11 MHz: 50	
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 +85°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 μsec. 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

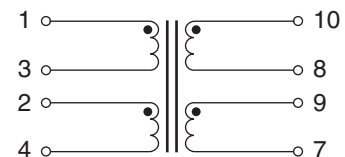
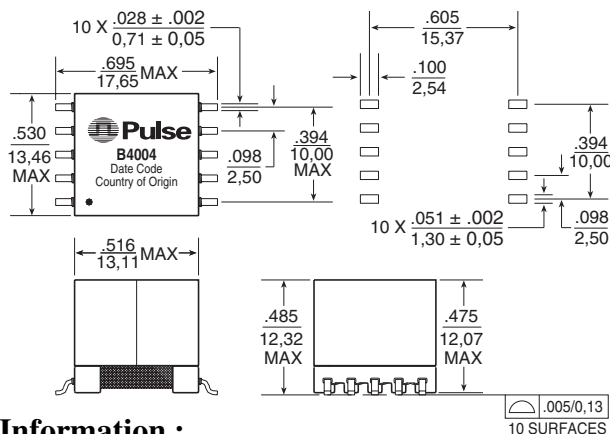
B4006/B4023



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
Tray60/tray

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

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PRELIMINARY B975.P (12/00)