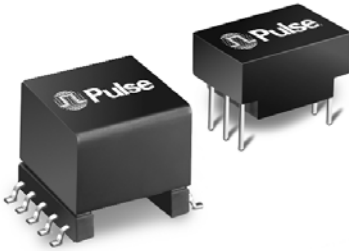


VDSL TRANSFORMERS



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

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

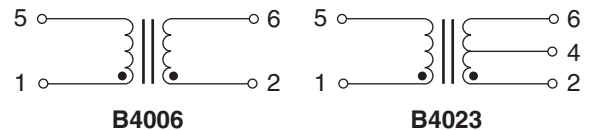
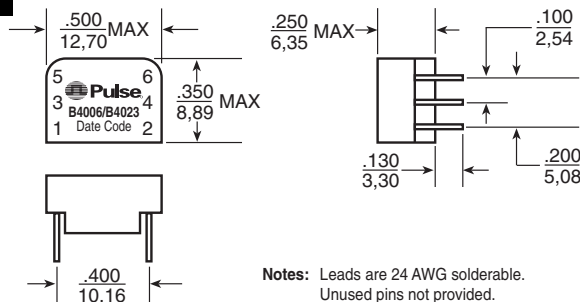
Part Number	Turns Ratio	Insertion Loss (dB MAX)	Return Loss (dB MIN)	Longitudinal Balance (dB TYP)	Isolation Voltage (Vrms)
B4006 (THT)	1:1	200 kHz to 400 kHz: 0.75	200 kHz to 18 MHz: 20	200 kHz: 60	3000
		400 kHz to 30 MHz: 0.50	18 MHz to 30 MHz: 14	11 MHz: 50	
B4023 (THT)	1:1CT	200 kHz to 20 MHz: 0.50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

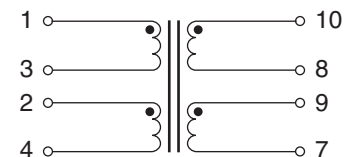
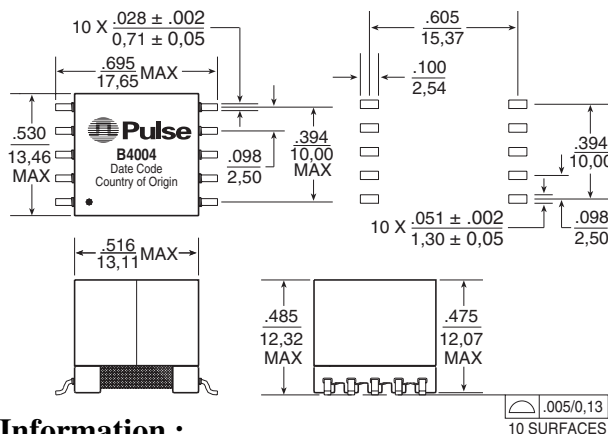
B4006/B4023



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 $\pm \frac{.010}{0,25}$

For More Information :

UNITED STATES (Worldwide)

12220 World Trade Drive
San Diego, CA 92128
U.S.A.
<http://www.pulseeng.com>
TEL: 858 674 8100
FAX: 858 674 8262

UNITED KINGDOM (Northern Europe)

1 & 2 Huxley Road
The Surrey Research Park
Guildford, Surrey GU2 5RE
United Kingdom
TEL: 44 1483 401700
FAX: 44 1483 401701

FRANCE (Southern Europe)

Zone Industrielle
F-39270
Orgelet
France
TEL: 33 3 84 35 04 04
FAX: 33 3 84 25 46 41

SINGAPORE (Southern Asia)

150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324
TEL: 65 287 8998
FAX: 65 280 0080

TAIWAN, R.O.C. (Northern Asia)

3F-4, No. 81, Sec. 1
HsinTai Wu Road
Hsi-Chih, Taipei Hsien
Taiwan, R.O.C.
Tel: 886 2 2698 0228
FAX: 886 2 2698 0948

DISTRIBUTOR

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be products and/or registered trademarks of their respective owners.

♻️ Printed on recycled paper. ©2000, Pulse Engineering, Inc.

PRELIMINARY B975.P (12/00)