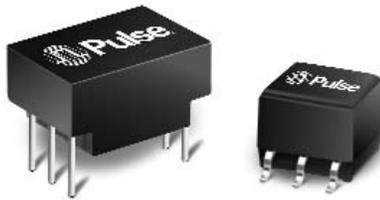


VDSL TRANSFORMERS

For Use with Broadcom and Texas Instruments Chipset



- For use with Broadcom's BCM6315 transceiver chip
- B4020, B4021 and BX4055: for use with Texas Instrument's TNETD800 chipset
- Excellent return loss and balance
- Surface mount or through hole package

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

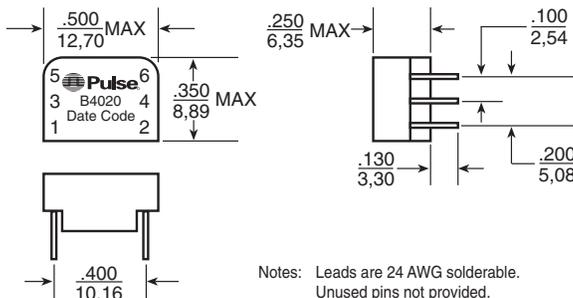
Part Number	Turns Ratio	Inductance (µH MIN)	Return Loss (dB MIN)	Insertion Loss* (dB MAX)	Line Impedance (Ω)	Longitudinal Balance (dB TYP)	CM Rejection (dB TYP)	Isolation Voltage (Vrms)
B4020 (THT)	1CT:1CT	190	300 kHz to 1 MHz: 18	200 kHz to 1 MHz: 0.8	100	200 kHz: 60	10 MHz: 35	3000
			1 MHz to 11 MHz: 20			11 MHz: 42	30 MHz: 33	
			11 MHz to 30 MHz: 16	1 MHz to 30 MHz: 0.7		100 MHz: 30	100 MHz: 25	
BX4055 (SMT)	1:1	190	300 kHz to 20 MHz: 20	200 kHz to 400 kHz: .75	100	200 kHz: 60	10 MHz: 35	1500
B4021 (SMT)	1CT:1CT		20 MHz to 30 MHz: 18	400 kHz to 30 MHz: .50		11 MHz: 50	30 MHz: 33	
						100 MHz: 40	100 MHz: 30	
BX4056 (SMT)	1:1.16	190	300 kHz to 1 MHz: 15	200 kHz to 400 kHz: 0.75	135	200 kHz: 60	10 MHz: 35	1500
			1 MHz to 20 MHz: 20			11 MHz: 50	30 MHz: 33	
			20 MHz to 30 MHz: 17	400 kHz to 30 MHz: 0.60		100 MHz: 40	100 MHz: 30	

NOTES - Surge Voltage Capability: Metallic: 800 Vpeak 10/560 µsec. Long.: 2400 Vpeak 10/700 µsec. B4020 is 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

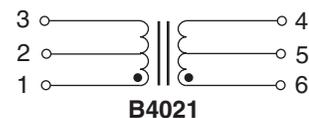
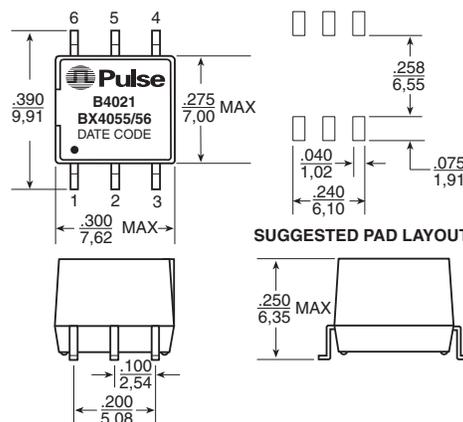
B4020



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

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

B4021/BX4055/BX4056



Weight.....0.6 grams
Tube.....70/tube

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

For More Information :

UNITED STATES (Worldwide)	UNITED KINGDOM (Northern Europe)	FRANCE (Southern Europe)	SINGAPORE (Southern Asia)	TAIWAN, R.O.C. (Northern Asia)	HONG KONG (China/Hong Kong)	DISTRIBUTOR
12220 World Trade Drive San Diego, CA 92128 U.S.A. http://www.pulseeng.com TEL: 858 674 8100 FAX: 858 674 8262	1 & 2 Huxley Road The Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom TEL: 44 1483 401700 FAX: 44 1483 401701	Zone Industrielle F-39270 Orgelet France TEL: 33 3 84 35 04 04 FAX: 33 3 84 25 46 41	150 Kampong Ampat #07-01/02 KA Centre Singapore 368324 TEL: 65 287 8998 FAX: 65 280 0080	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	19/F, China United Plaza 1008 Tai Nan West Street Cheung Sha Wan, Kowloon Hong Kong, China TEL: 852 2788 6588 FAX: 852 2776 1055	

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.