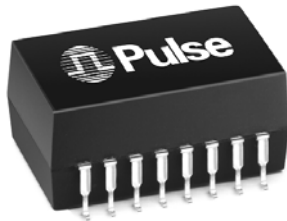


VDSL TRANSFORMER

For Use with Broadcom® BCM 6010/6020



- Hybrid transformer provides two-wire to four-wire conversion
- Extended bandwidth
- Surface mount device
- Meets international safety regulations for telecom

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

Part Number	Turns Ratio		DCR (MAX)	Return Loss (dB MIN)	Insertion Loss (dB MAX)	Transhybrid Loss (dB MIN)	Longitudinal Balance (dB TYP)	Isolation Voltage (Vrms)
	Trans.	Rec.						
BX4030	2:1	1:1	0.5 Ω	138 kHz to 300 kHz: 8	138 kHz to 30 MHz: .7	138 kHz to 20 MHz: 30	138 kHz to 300 kHz: 60	2500
				300 kHz to 1 MHz: 13.5		20 MHz to 30 MHz: 25	300 kHz to 1 MHz: 50	
				1 MHz to 10 MHz: 20			1 MHz to 10 MHz: 45	
				10 MHz to 20 MHz: 13.5			10 MHz to 30 MHz: 40	
				20 MHz to 30 MHz: 8				

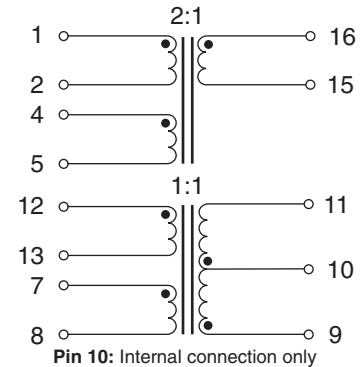
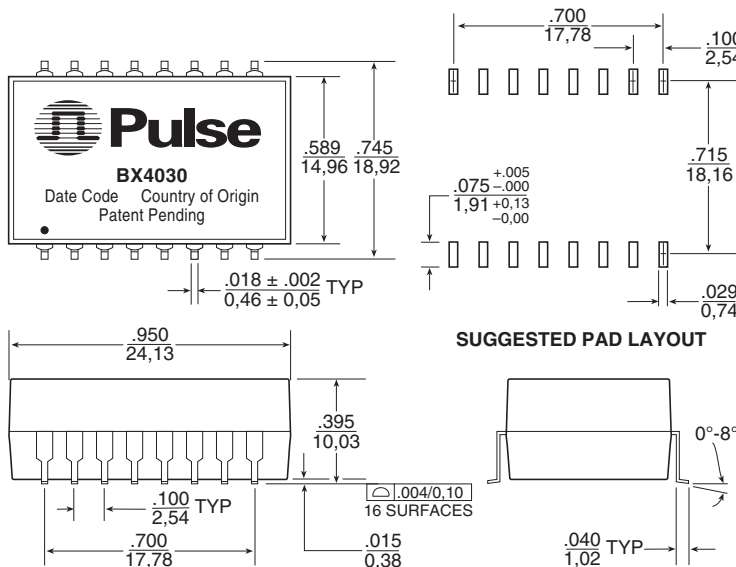
NOTES:

1. BX4030 complies with the safety regulations of IEC950 for supplementary insulation.
2. **Surge Voltage Capability** - Metallic: 800 Vpeak, 10/560 μ sec; Longitudinal: 2400 Vpeak, 10/700 μ sec.
3. **Extended Temperature Range** - Insertion loss will increase approximately 0.5 db from 138 kHz to 1 Mhz. Return loss will decrease to 5 dB TYP @ 138 kHz and 10 dB TYP @ 300 kHz.
4. Common mode chokes to reduce ingress from AM radio broadcast or HAM radio are available. See data sheet B912 for parts B4001 and B4003.

Mechanical

Schematics

BX4030



Weight.....8.1 grams

Tube.....20/tube

Tape & Reel100/reel

Dimensions: Inches

mm

Unless otherwise specified, all tolerances are $\pm .010$
0.25

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PRELIMINARY B984.P (4/01)