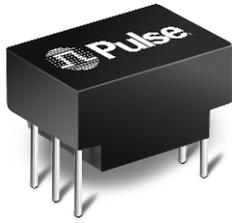


VDSL TRANSFORMERS

For Use with Broadcom Chipset



-  For use with Broadcom's BCM6315 transceiver chip
-  Excellent return loss and balance
-  Surface mount or through hole package

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

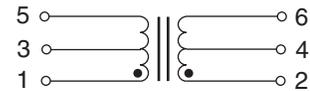
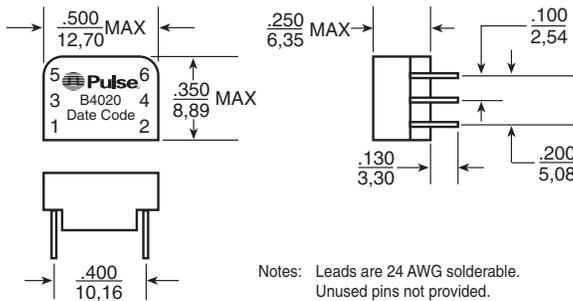
Part Number	Turns Ratio	Inductance (μH MIN)	Return Loss (dB MIN)	Insertion Loss* (dB MAX)	Line Impedance (Ω)	Longitudinal Balance (dB TYP)	CM Rejection (dB TYP)	Isolation Voltage (Vrms)
B4020 (THT)	1CT:1CT	190	300 kHz to 1 MHz: 18	200 kHz to 1 MHz: 0.8	100	200 kHz: 60	10 MHz: 35	3000
			1 MHz to 11 MHz: 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

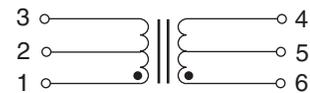
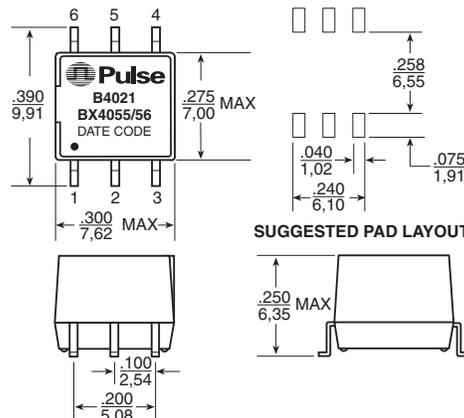
B4020



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 :

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PRELIMINARY B981.P (8/01)