

- For use with Broadcom's® iLine 10™ Chipset (BCM4100 and BCM4210)
- Includes isolation and EMI filtering
- Designed to withstand 235°C peak infrared reflow temperature
- B6019 is designed with a 2 kV, 1000 pf capacitor

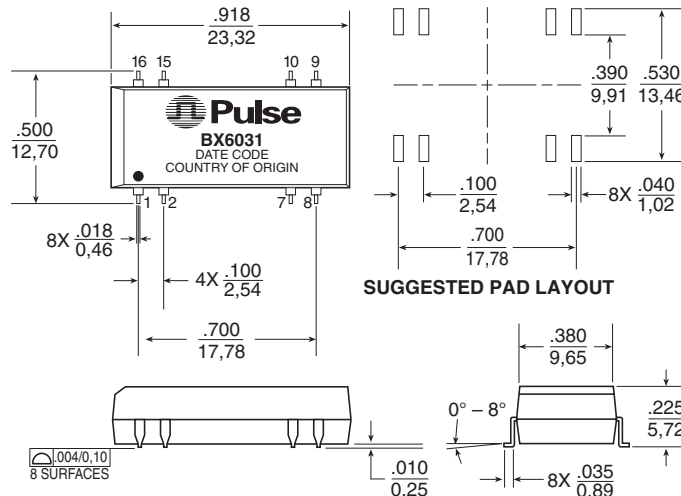
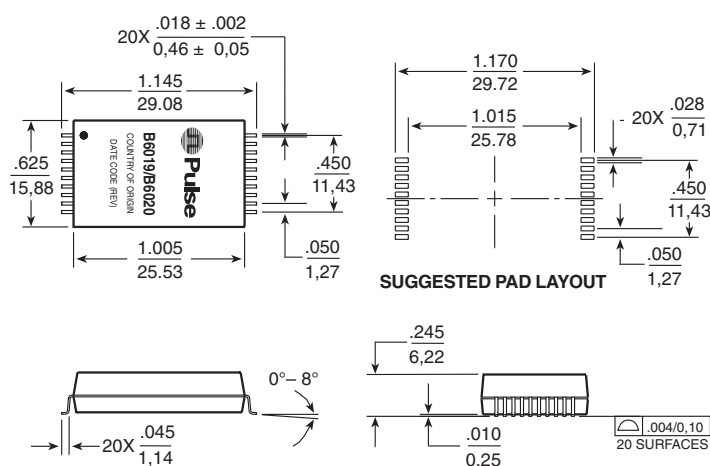
Part Number	Insertion Loss @ 4.75 to 9.25 MHz		Attenuation (MIN)			Return Loss @ 4.75 to 9.25 MHz	Common to Differential Mode Rejection	Isolation Voltage ¹
	(MIN)	(MAX)	1.1 MHz	22 MHz	54 MHz	(MIN)	@ 200 kHz to 22 MHz	(Vrms)
B6019	1.0 dB	2.0 dB	60 dB	35 dB	50 dB	12 dB	40 dB	1500
B6020								
BX6031								

Test Conditions

Part Number	Insertion Loss		Attenuation		Return Loss		Common to Differential Mode Rejection		Isolation Voltage ¹
	Input	Output	Input	Output	Input	Output	Input	Output	
B6019	(1-3)	(20-18)	(1-3)	(20-18)	(20-18)	(1-3)	(1-3)	(20-18)	(1-3-5-7) shorted to (18-20) shorted
B6020									
BX6031	(1-2)	(8-9)	(1-2)	(8-9)	(8-9)	(1-2)	(1-2)	(8-9)	(1-2-15-16) shorted to (8-9-10) shorted

Mechanicals

BX6031



	B6019/B6020	BX6031
Weight	4.5 grams	2.5 grams
Tape & Reel	250/reel	250/reel
Tube	30/tray	20/tray

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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

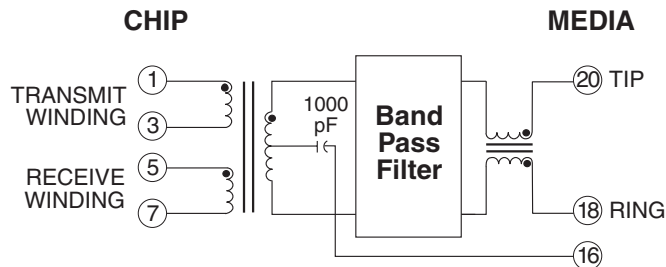
HOME PHONE NETWORKING BANDPASS FILTER



Schematics

B6019

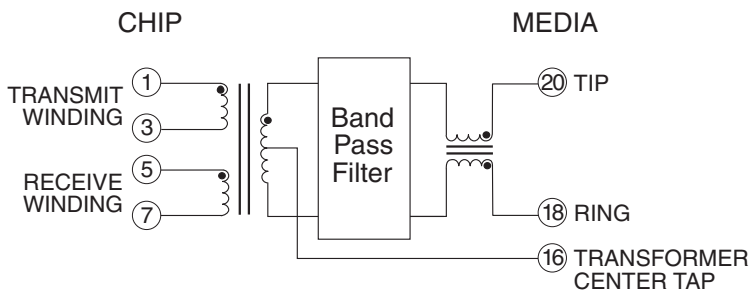
URNS RATIO: (20-18):(1-3)=1:0.667
(20-18):(5-7)=1:2



NOTE: Input impedance is measured across pins 18 to 20 with a 44.2 Ω load across pins 1 and 3.

B6020

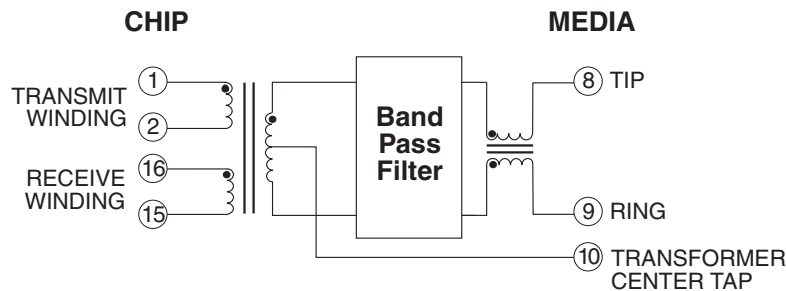
URNS RATIO: (20-18):(1-3)=1:0.667
(20-18):(5-7)=1:2



NOTE: Input impedance is measured across pins 18 to 20 with a 44.2 Ω load across pins 1 and 3.

BX6031

URNS RATIO: (8-9):(1-2)=1:0.667
(8-9):(16-15)=1:2



NOTE: Input impedance is measured across pins 9 to 8 with a 44.2 Ω load across pins 1 and 2.

Input Impedance

Frequency Range (kHz)	Minimum Impedance (Ω)
0 < f ≤ 0.285	1 M
0.285 < f ≤ 2.85	100 K
2.85 < f ≤ 28.5	10 K
28.5 < f ≤ 95	4.0 K
95 < f ≤ 190	2.0 K
190 < f ≤ 285	1.4 K
285 < f ≤ 380	1.0 K
380 < f ≤ 475	850
475 < f ≤ 570	700
570 < f ≤ 665	600
665 < f ≤ 760	525
760 < f ≤ 855	450
855 < f ≤ 950	400
950 < f ≤ 1000	350
1000 < f ≤ 1400	175
1400 < f ≤ 2300	100
2300 < f ≤ 2850	50
2850 < f ≤ 3085	25
3085 < f ≤ 3725	10
3725 < f ≤ 3935	25
3935 < f ≤ 4000	50
10000 < f ≤ 10450	40
10450 < f ≤ 10925	25
10925 < f ≤ 13125	10
13125 < f ≤ 14175	25
14175 < f ≤ 16800	50
16800 < f ≤ 21000	100
21000 < f ≤ 30000	50

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