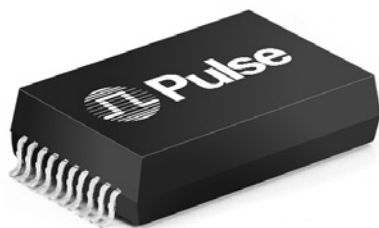


HOME PHONE NETWORKING BANDPASS FILTER



- 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
- B6013 is designed with a 2 kV, 1000 pf capacitor

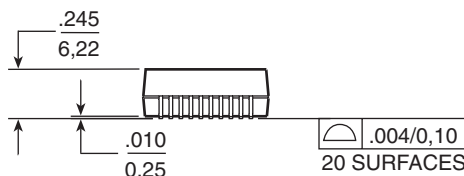
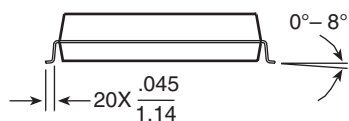
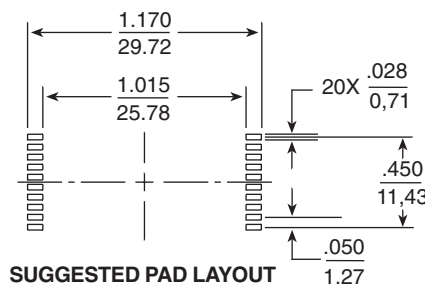
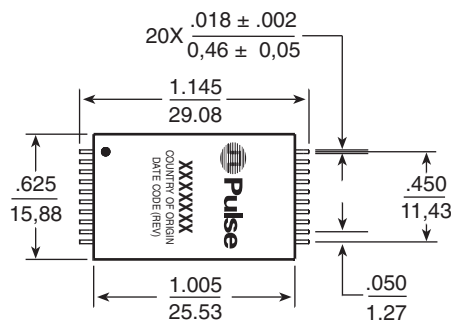
Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

PARAMETER	TEST CONDITION	UNITS	
		MIN	MAX
HomePNA™ V2.0 Insertion Loss (4.25 MHz to 9.75 MHz)	Input (1-3), Output (20-18)	1.0 dB	2.0 dB
HomePNA™ V2.0 Attenuation 1.1 MHz 22 MHz 54 MHz	Input (1-3), Output (20-18)	60 dB 35 dB 50 dB	
HomePNA™ V2.0 Return Loss (6.0 MHz to 9.0 MHz)	Input (20-18), Output (1-3)	12 dB	
HomePNA™ V2.0 Common to Differential Mode Rejection (200 kHz to 22 MHz)	Input (1-3), Output (20-18)	40 dB	
Isolation	Pins (1-3-5-7) shorted to (18-20) shorted	1500 Vrms ¹	
Input Impedance	(see table on page 2)		

NOTE: Filters are shipped in tubes unless Tape & Reel is specified. Please add the suffix "R" (for SF5770TR Tape & Reel orders) and the suffix "T" (for B6013T Tape & Reel orders). ¹Compliance with FCC Part 68 metallic and longitudinal voltage surge is provided by an external Teccor P3100SC sidactor across tip and ring.

Mechanical

SF5770T/B6013



Weight 4.5 grams
Tape & Reel250/reel
Tube30/tube
Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are ± .010
0,25

HOME PHONE NETWORKING BANDPASS FILTER

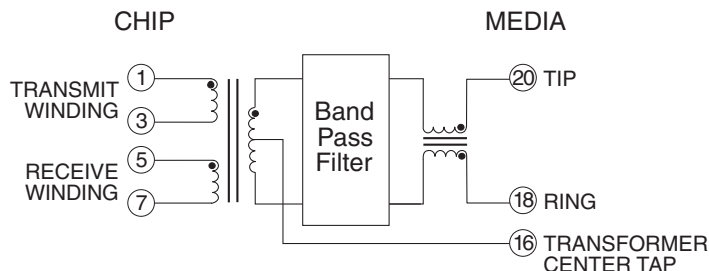


Schematics

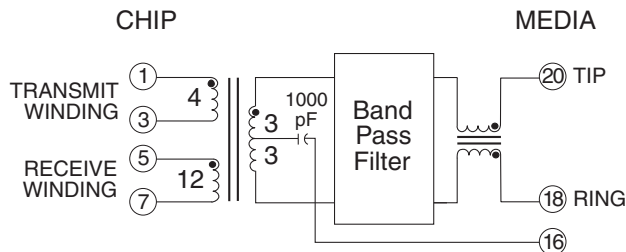
SF5770T

B6013

Turns Ratio: $(20-18):(1-3)=1:0.667$
 $(20-18):(5-7)=1:2$



Turns 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.

Input Impedance

Frequency Range (kHz)	Minimum Impedance (Ω)
$0 < f \leq 0.285$	1 M
$0.285 < f \leq 2.85$	100 K
$2.85 < f \leq 28.5$	10 K
$28.5 < f \leq 95$	4.0 K
$95 < f \leq 190$	2.0 K
$190 < f \leq 285$	1.4 K
$285 < f \leq 380$	1.0 K
$380 < f \leq 475$	850
$475 < f \leq 570$	700
$570 < f \leq 665$	600
$665 < f \leq 760$	525
$760 < f \leq 855$	450
$855 < f \leq 950$	400
$950 < f \leq 1000$	350

Frequency Range (kHz)	Minimum Impedance (Ω)
$1000 < f \leq 1400$	175
$1400 < f \leq 2300$	100
$2300 < f \leq 2850$	50
$2850 < f \leq 3085$	25
$3085 < f \leq 3725$	10
$3725 < f \leq 3935$	25
$3935 < f \leq 4000$	50
$10000 < f \leq 10450$	40
$10450 < f \leq 10925$	25
$10925 < f \leq 13125$	10
$13125 < f \leq 14175$	25
$14175 < f \leq 16800$	50
$16800 < f \leq 21000$	100
$21000 < f \leq 30000$	50

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 trademarks or registered trademarks of their respective owners.