





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

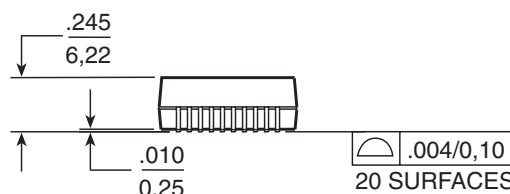
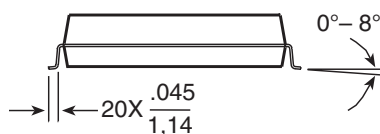
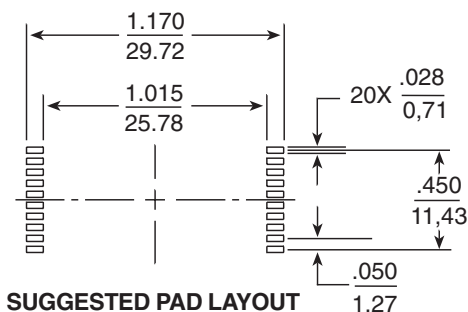
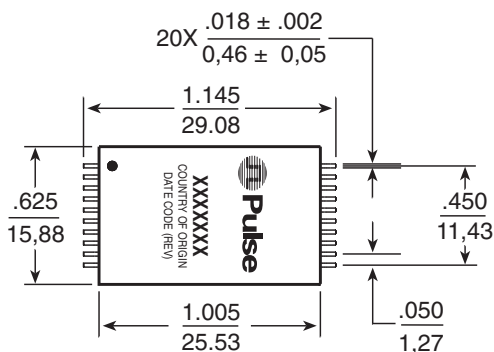
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

| 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

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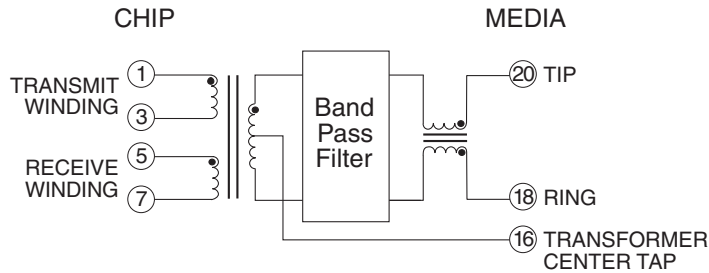


Schematics

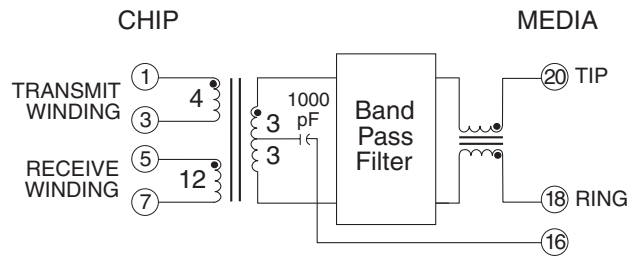
SF5770T

B6013

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



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. The magnitude of the input impedance shall be >10 Ω from 0-30 MHz and shall conform to the following lower-bound mask:

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 |

| Frequency Range (kHz) | Minimum Impedance (Ω) |
|-----------------------|-----------------------|
| 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 |

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

HONG KONG (China/Hong Kong)

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

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