

3 to 300 MHz

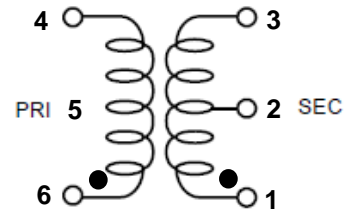
Features

- Surface Mount
- 2:1 Impedance Ratio
- RoHS- compliant 2:1 transformer
- Low Cost
- Broadband

Applications

- Impedance Matching
- Balanced Amplifier

Functional Diagram



Description

The PBI21A / PRWB50-2-1A is a RoHS compliant 2:1 RF flux coupled transformer in a low cost, surface mount packaging and broadband. The Applications include impedance matching and balanced amplifier. Also the PBI21A / PRWB50-2-1A is consist of single to differential mode. Transformer is surface mount packaging and is designed high temperature soldering reflow.

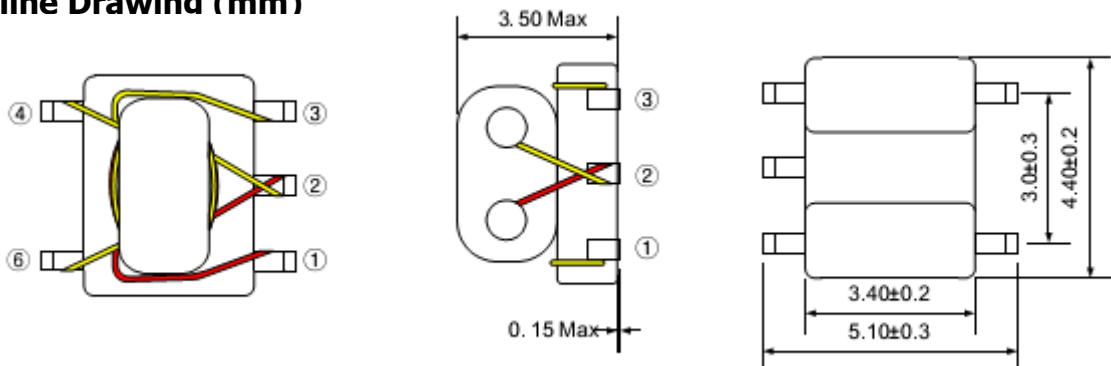
| Function | Pin No. | Function | Pin No. |
|-------------|---------|---------------|---------|
| Primary | 4 | Secondary | 3 |
| Not Used | 5 | Secondary CT | 2 |
| Primary Dot | 6 | Secondary Dot | 1 |

Electric Characteristic

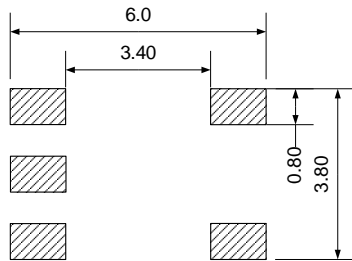
Test Conditions : T=25°C, 50ohm System

| Parameter | Unit | Frequency(MHz) | Typ. |
|---------------------|------|----------------|------|
| Frequency | MHz | 3 ~ 300 | - |
| Insertion Loss | dB | 3 ~ 300 | 0.4 |
| Amplitude Unbalance | dB | 3 ~ 300 | 0.3 |
| Phase Unbalance | dB | 3 ~ 300 | 1 |

Outline Drawing (mm)



PCB Footprint (mm)



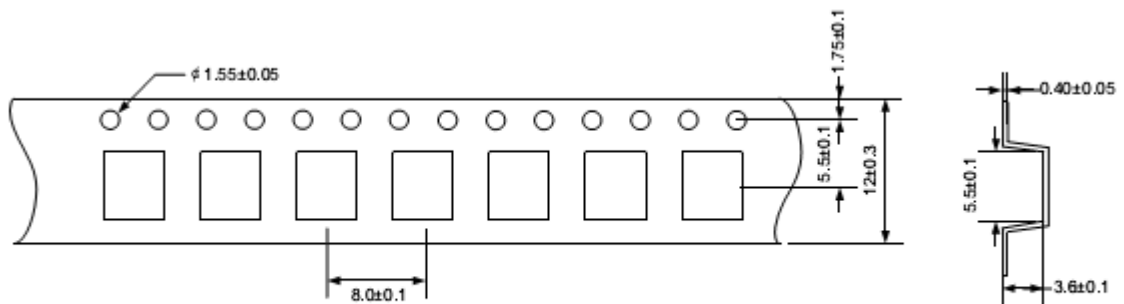
Absolute Maximum Ratings

| Parameter | Rating |
|-----------------------|---------------|
| RF Power | 500 mW |
| DC Current | 30mA |
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -55 to +125 |

Packing Unit

| ITEM | Reel Packing (Q'ty / Reel) | Outbox (Q'ty/Cartoon) |
|-----------|----------------------------|-----------------------|
| SMD Balun | 1,500 pcs | 6,000 pcs |

Reel Tape Dimension



*REEL BACK TEST
 30g~80g

