

Description: 2012 2.4-2.5GHz Combo

PART NUMBER: BLF2012LL98R2400A

Features:

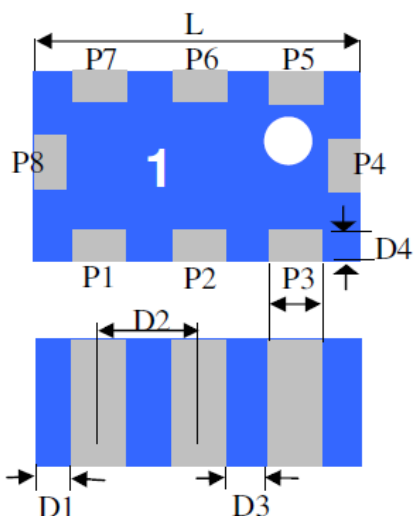
- Compact size : 2.00x1.25x0.90mm
- RoHS compliant

Applications:

- WLAN, 802.11a/b/g/n
- Bluetooth
- ISM Band

MECHANICAL DIMENSION

Outline



Termination

| Terminal name | Function |
|---------------|-------------|
| P1 | Balanced |
| P2 | GND |
| P3 | Balanced |
| P4 | GND |
| P5 | Unbalanced |
| P6 | DC |
| P7 | Not Connect |
| P8 | GND |

Mechanical

| | Dimension |
|---------|-----------|
| L (mm) | 2.00±0.15 |
| W (mm) | 1.25±0.15 |
| T (mm) | 0.90±0.15 |
| P1 (mm) | 0.30±0.15 |
| P2 (mm) | 0.30±0.15 |
| P3 (mm) | 0.30±0.15 |
| P4 (mm) | 0.50±0.15 |
| P5 (mm) | 0.30±0.15 |
| P6 (mm) | 0.30±0.15 |
| P7 (mm) | 0.30±0.15 |
| P8 (mm) | 0.50±0.15 |
| D1 (mm) | 0.20±0.15 |
| D2 (mm) | 0.65±0.15 |
| D3 (mm) | 0.35±0.15 |
| D4 (mm) | 0.30±0.15 |

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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ELECTRICAL SPECIFICATIONS

| DESCRIPTION | Value |
|--------------------------|--|
| Pass Band | 2400~2500 MHz |
| Unbalanced Impedance | 50Ω |
| Balanced Impedance | Conjugate match to CSR BC03/04 series |
| Unbalanced port V.S.W.R. | 2.0 (Max.) |
| Balanced port V.S.W.R. | 2.0 (Max.) |
| Insertion Loss | 3.0 dB (Typ.) at 25°C 3.5 dB (Max) at 25°C 3.8dB (Max) at -40 ~ 85 °C |
| Ripple | 1.0 dB (Max) |
| Amplitude Balance | 1.0 dB (Max) at 25 °C 1.4 dB (Max) at -40 ~ 85 °C |
| Phase Differential | 180 ± 5 degree at 25 °C 180 ± 10 degree at -40 ~ 85 °C |
| Attenuation | 40dB(Min) @ 880~960MHz 25dB(Min) @ 1300~1600MHz 35dB(Min) @ 4800~5000MHz 30dB(Min) @ 7200~7500MHz |
| DC Working Voltage | 0 ~ 25 Volt |
| Operating Temperature | -40 ~ 85°C |

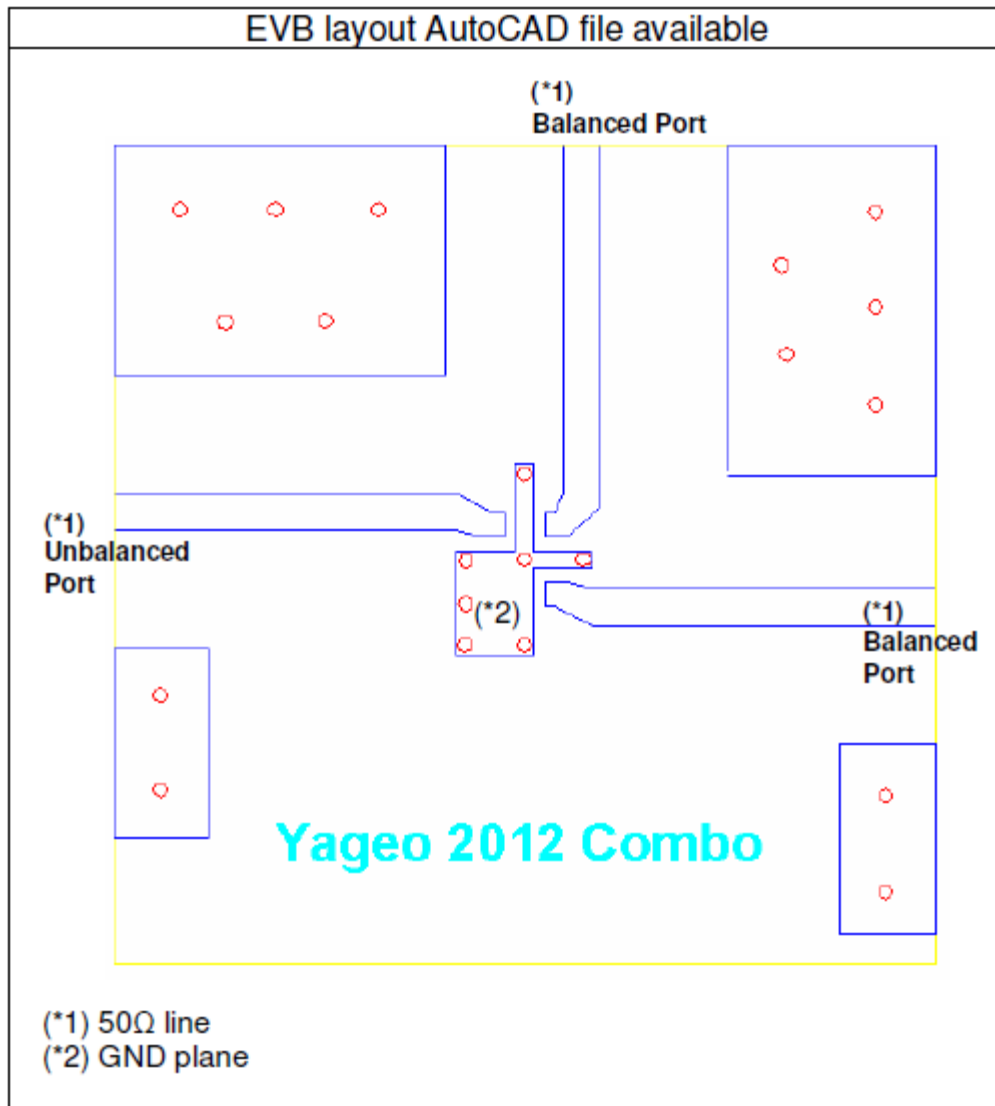
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Reference design of EVB

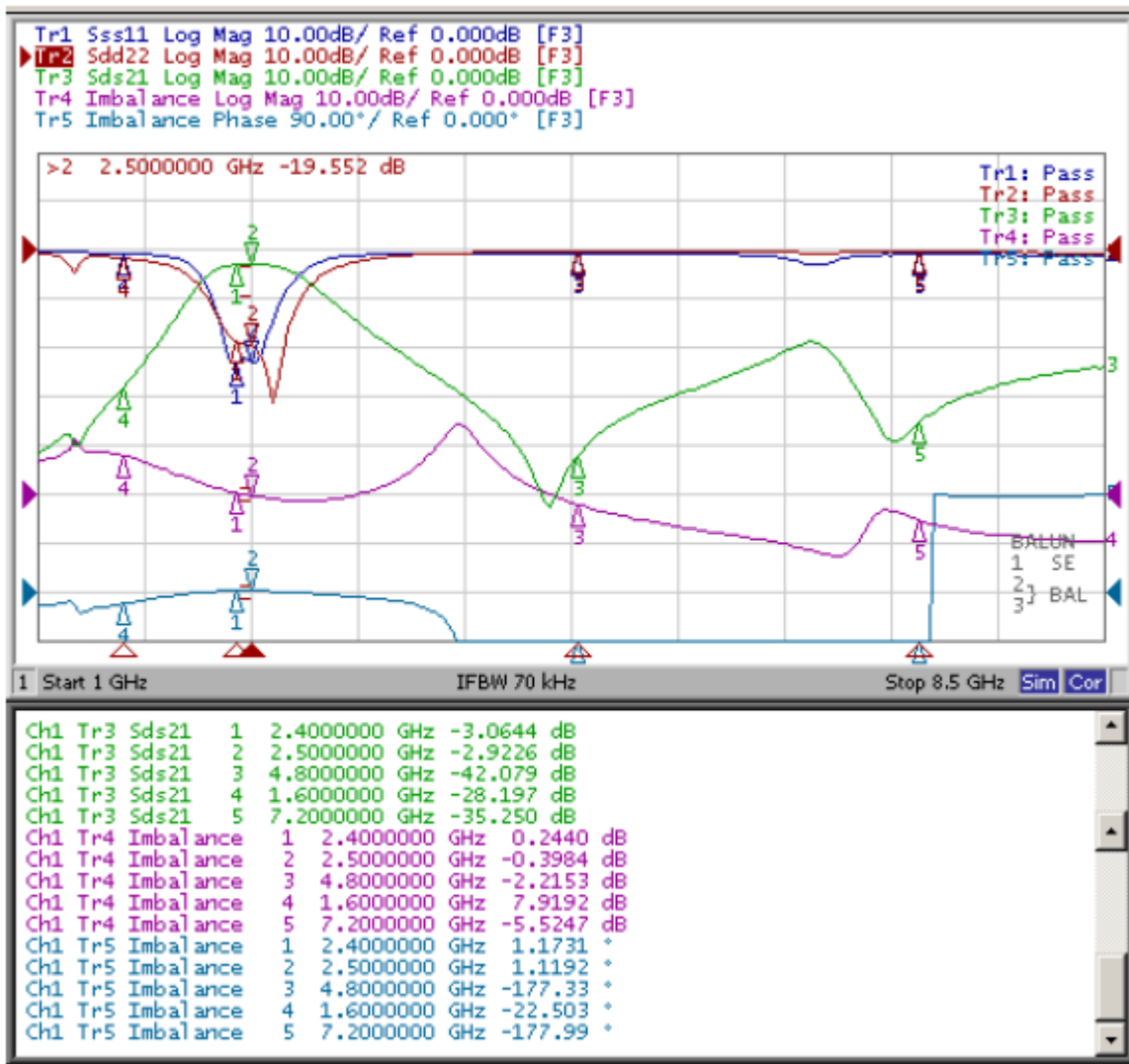


Reference design of evaluation board

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ELECTRICAL PERFORMANCES



- Unbalanced port return loss (Sss11, single-ended port return loss)
- Balanced port return loss (Sdd22, differential port return loss)
- Insertion loss (Sds21, differential port to single-ended port)
- Imbalance of amplitude (S21/S31, amplitude difference)
- Imbalance of phase (S21/S31, phase difference)

Frequency Characteristics

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REVISION HISTORY

| Revision | Date | Description |
|-----------|---------------|-------------|
| Version 1 | Oct. 07, 2020 | - New issue |