

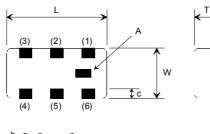
Balance Matching BAND PASS FILTER

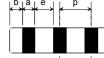
1. Characteristics (at -40 \sim +85 °C)

| Tentative Part Number | LFB182G45BG7D948 | | |
|------------------------------------|--|--|--|
| Unbalance Port Impedance (Nominal) | 50 Ω(Nominal) | | |
| Balance Port Impedance (Nominal) | Conjugate match to Nordic nRF51xx series(CSP) | | |
| Center Frequency | 2450.00 MHz | | |
| Frequency Range (BW) | 2450.00 ± 50.00 MHz | | |
| Insertion Loss in BW | 2.90 dB max. at 25 °C 3.25 max. at -40 ~ +85 °C | | |
| Attenuation (Absolute value) | 2.3 dB min. at 2800.00 MHz 29.0 dB min. at 4800.00 ~ 5000.00 MHz 14.0 dB min. at 7200.00 ~ 7500.00 MHz | | |
| Unbalance Port V.S.W.R.in BW. | 3.6 max. | | |
| Balance Port V.S.W.R.in BW | 3.1 max. | | |
| Amplitude Balance | 3.0 dB max | | |
| Phase Differency | 180+/-16.5 deg. | | |
| Power Capacity | 500 mW max. | | |

3. Land Pattern

2. Construction, Dimensions & Marking





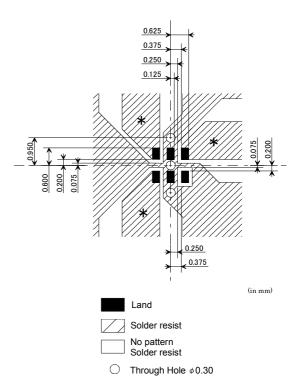
| Mark A | | | Meaning Directional Input Mark | | | | | | |
|------------------------|------|-------------|-----------------------------------|-----------------|-----------|---------------|-----------------|--|--|
| | | | | | | | (in mm) | | |
| Mark | Dime | ension Mark | | 1 | Dimension | Mark | Dimension | | |
| L | 1.6 | ±0.1 | a | 0.2±0.1 | | е | 0.3±0.1 | | |
| w | 0.8 | ±0.1 | b | 0.20+0.10/-0.15 | | р | 0.50 ± 0.05 | | |
| Т | 0.7 | 0.7 max. | | 0.15±0.10 | | - | - | | |
| TERMINAL CONFIGURATION | | | | | | | | | |
| Terminal No. Termi | | inal Name | | Terminal No | Tern | Terminal Name | | | |
| (1) Unbe | | lance Port | | (4) | Ba | Balance Port | | | |
| (.) | | / | | | | | | | |

 (1)
 Unbalance Port
 (4)
 Balance Port

 (2)
 GND(D C fee d)
 (5)
 GND

 (3)
 Balance Port
 (6)
 NC

 • Terminal of "NC "should be fixed to the no connected pattern.



*Line width to be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

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