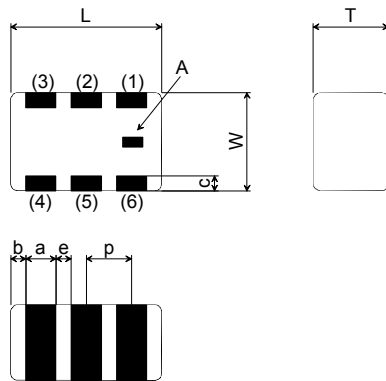


## Balance Matching BAND PASS FILTER

### 1. Characteristics ( at -40 ~ + 85 °C)

|                                    |  |
|------------------------------------|--|
| Tentative Part Number              | LFB182G45BG5D920   |
| Unbalance Port Impedance (Nominal) | 50 Ω   |
| Balance Port Impedance (Nominal)   | Conjugate match to TI CC26xx   |
| Frequency Range (BW)               | 2450.00 ± 50.00 MHz  |
| Insertion Loss in BW               | 1.60 dB max. at 25 °C<br>1.80 dB max. at -40 ~ +85 °C                      |
| Attenuation (Absolute value)       | 25 dB min. at 4800.00 ~ 5000.00 MHz<br>25 dB min. at 7200.00 ~ 7500.00 MHz |
| Unbalance Port V.S.W.R. in BW      | 2.40 max.  |
| Balance Port V.S.W.R. in BW        | 2.40 max.  |
| Amplitude Balance                  | 2.3 dB max   |
| Phase Differency                   | 180+/-18.0 deg.  |
| Power Capacity                     | 500 mW max.  |

### 2. Construction, Dimensions & Marking 3. Land Pattern



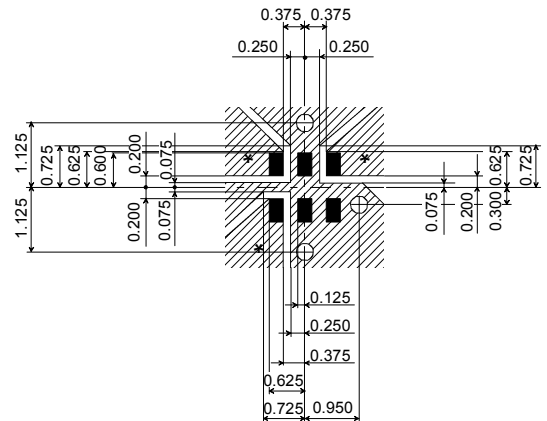
(in mm)

| Mark | Meaning                |
|------|------------------------|
| A    | Directional Input Mark |

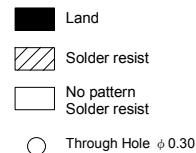
| Mark | Dimension | Mark | Dimension       |
|------|-----------|------|-----------------|
| L    | 1.6±0.1   | b    | 0.20+0.10/-0.15 |
| W    | 0.8±0.1   | c    | 0.15±0.10       |
| T    | 0.65 max. | e    | 0.3±0.1         |
| a    | 0.2±0.1   | p    | 0.50±0.05       |

#### TERMINAL CONFIGURATION

| Terminal No. | Terminal Name  | Terminal No. | Terminal Name |
|--------------|----------------|--------------|---------------|
| (1)          | Unbalance Port | (4)          | Balance Port  |
| (2)          | GND            | (5)          | GND           |
| (3)          | Balance Port   | (6)          | GND           |



(in mm)



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

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- Medical equipment.
- Traffic signal equipment.
- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.
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