

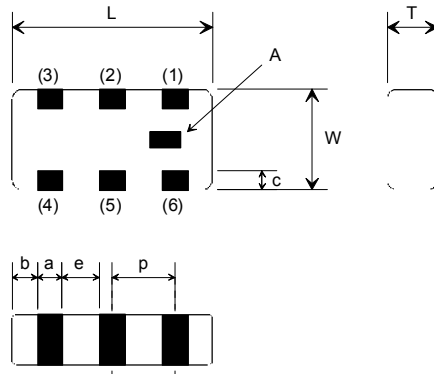
# Balance Matching BAND PASS FILTER

## 1. Characteristics (at -40~+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.

## 2. Construction, Dimensions & Marking

## 3. Land Pattern



Mark	Meaning
A	Directional Input Mark

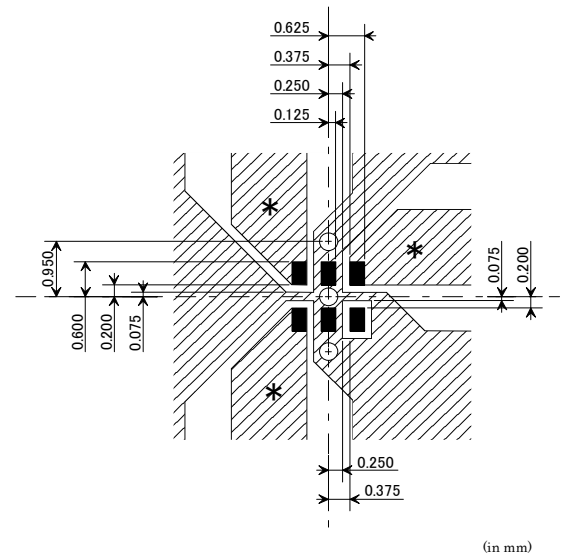
(in mm)

Mark	Dimension	Mark	Dimension	Mark	Dimension
L	1.6±0.1	a	0.2±0.1	e	0.3±0.1
W	0.8±0.1	b	0.20+0.10/-0.15	p	0.50±0.05
T	0.7 max.	c	0.15±0.10	-	-

### TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	Unbalance Port	(4)	Balance Port
(2)	GND(DC feed)	(5)	GND
(3)	Balance Port	(6)	NC

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



(in mm)

- Land
- Solder resist
- No pattern Solder resist
- Through Hole φ0.30

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

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- Traffic signal equipment.
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- Application of similar complexity and/ or reliability requirements to the applications listed in the above.
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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