

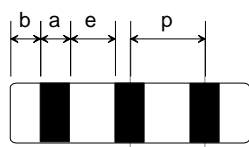
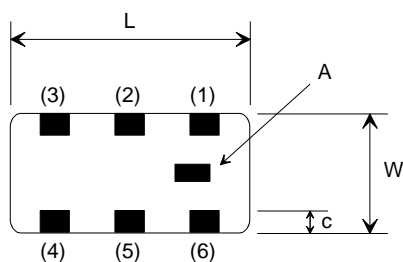
## Balance Matching BAND PASS FILTER

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

Part Number	LFB182G45BG4D268
Unbalance Port Impedance (Nominal)	50 Ω
Balance Port Impedance (Nominal)	Conjugate match to Nordic nRF24Lxxx
Frequency Range (BW)	2450.00 ± 50.00 MHz
Insertion Loss in BW	2.60 dB max.
Attenuation (Absolute value)	19.0 dB min. at 4800.00 ~ 5000.00 MHz 24.0 dB min. at 7200.00 ~ 7500.00 MHz
Unbalance Port V.S.W.R. in BW	2.50 max.
Balance Port V.S.W.R. in BW	2.50 max.
Power Capacity	500 mW max.

### 2. Construction, Dimensions & Marking

### 3. Land Pattern



Mark	Meaning
A	Directional Input Mark

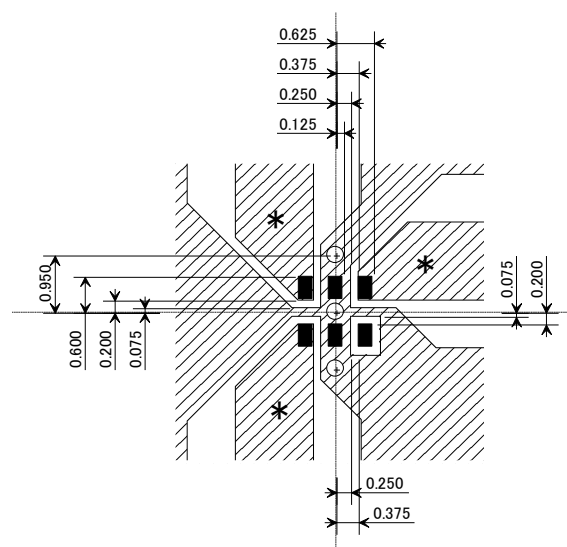
(in mm)

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	(5)	GND(DC feed)
(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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- Undersea equipment.
- 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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- Power plant control equipment
- Transportation equipment (vehicles, trains, ships, elevator, etc.).
- Disaster prevention / crime prevention equipment.

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