

BAND PASS FILTER

1. Characteristics (at -40 to +85 °C)

| Tentative Part Number | LFB1X2G45CN3E165 | |
|-----------------------------------|---|--|
| Nominal Characteristics Impedance | 50 Ω (Nominal) | |
| Nominal Center Frequency | 2450.00 MHz | |
| Pass Band Range (BW) | fo ± 50.00 MHz | |
| Insertion Loss in BW | 1.30 dB max. at +25 °C 1.60 dB max. at -40 to +85 °C | |
| | 19.0 dB min. at 500.00 ~ 960.00 MHz | |
| Attenuation | 20.0 dB min. at 3200.00 MHz | |
| Attenuation | 30.0 dB min. at 4800.00 ~ 5000.00 MHz | |
| | 30.0 dB min. at 7200.00 ~ 7500.00 MHz | |
| V.S.W.R. in BW | 2.00 max. | |
| Power Capacity | 500mW max | |



2. Construction, Dimensions & Marking

| Mark | Meaning | |
|------|------------------------|--|
| Α | Directional Input Mark | |

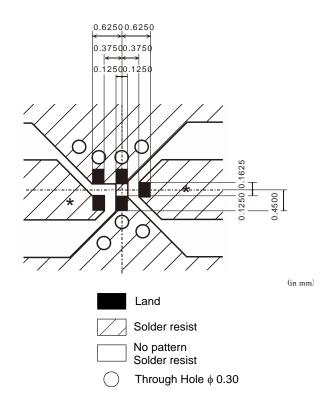
(in mm)

| Mark | Dimension | Mark | Dimension |
|--------------|-----------------|------------|-------------------|
| \mathbf{L} | 1.35 ± 0.10 | c1 | 0.325 ± 0.100 |
| W | 1.05 ± 0.10 | c2 | 0.300 ± 0.100 |
| ${f T}$ | 0.8 max. | e1 | 0.225 ± 0.05 |
| a1 | 0.20 ± 0.10 | e 2 | 0.225 ± 0.05 |
| a2 | 0.25 ± 0.10 | e3 | 0.225 ± 0.05 |
| a 3 | 0.20 ± 0.10 | - | - |

TERMINAL CONFIGURATION

| Terminal No. | Terminal Name | Terminal No. | Terminal Name |
|--------------|---------------|--------------|---------------|
| (1) | IN | (4) | OUT |
| (2) | GND | (5) | GND |
| (3) | GND | - | - |

3. Land Pattern



 $\mbox{\@model{\times}}$ Line width to be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.





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- Aerospace equipment

- Undersea equipment.

- Power plant control equipment
- Medical equipment.
- Transportation equipment (vehicles, trains, ships, elevator, etc.).
- Traffic signal equipment.
- Disaster prevention / crime prevention equipment.
- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.

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