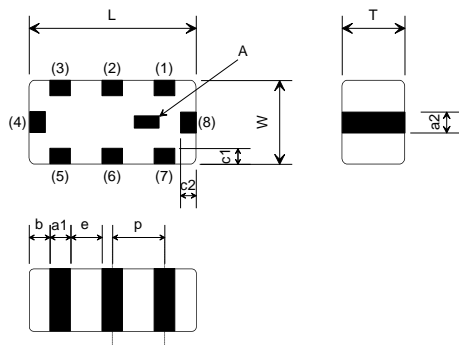


DUAL BAND DIPLEXER

1. Characteristics (at -40 to +85 °C)

| | | | |
|---------------------|-------|-------------------------|--|
| Part Number | | | LFD182G45DCJD247 |
| Pass Band Range | f1 | | 2450.00 ± 50.00 MHz |
| | f2 | | 5425.00 ± 525.00 MHz |
| Insertion Loss (dB) | P1-P3 | in f1 | 0.35 max. (at 25 °C) 0.45 max. (at -40 to +85 °C) |
| | P2-P3 | in f2 | 0.50 dB max. (at 25 °C) 0.60 dB max. (at -40 to +85 °C) |
| Attenuation (dB) | P1-P3 | at 4800.00~5000.00 MHz | 20.0 min. |
| | | at 5000.00~5950.00 MHz | 22.0 min. |
| | | at 7200.00~7500.00 MHz | 20.0 min. |
| | P2-P3 | at 824.00~2170.00 MHz | 26.0 min. |
| | | at 2400.00~2500.00 MHz | 30.0 min. |
| | | at 9800.00~11900.00 MHz | 25.0 min. |
| V.S.W.R. | P1 | in f1 | 1.80 max. |
| | P2 | in f2 | 1.80 max. |
| | P3 | in f1, f2 | 1.80 max. |
| Power Capacity | | | 3 W max. |

2. Construction, Dimensions & Marking



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

(in mm)

| Mark | Dimension | Mark | Dimension | Mark | Dimension |
|------|-----------|------|-------------|------|-------------|
| L | 1.6 ± 0.1 | a2 | 0.2 ± 0.1 | e | 0.3 ± 0.1 |
| W | 0.8 ± 0.1 | b | 0.20 ± 0.15 | p | 0.50 ± 0.05 |
| T | 0.7 Max. | c1 | 0.15 ± 0.10 | - | - |
| a1 | 0.2 ± 0.1 | c2 | 0.15 ± 0.10 | - | - |

TERMINAL CONFIGURATION

| Terminal No. | Terminal Name | Terminal No. | Terminal Name |
|--------------|---------------|--------------|---------------|
| (1) | P1 (*1) | (5) | GND |
| (2) | GND | (6) | P3 (*3) |
| (3) | P2 (*2) | (7) | GND |
| (4) | NC | (8) | NC |

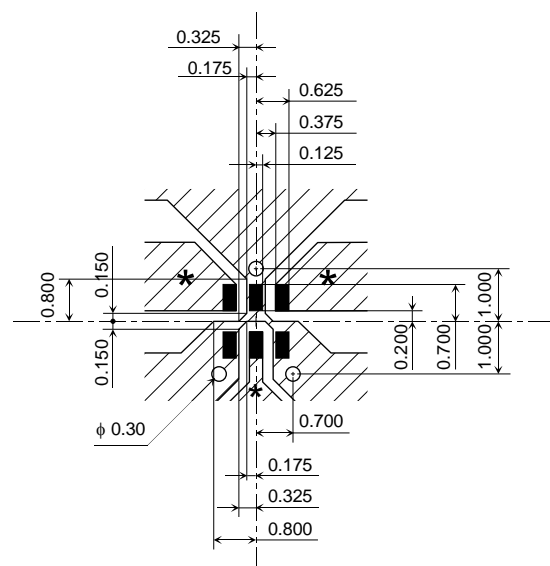
'NC' terminal should not be fixed to any pattern.

(*1) Lower Frequency Port

(*2) Higher Frequency Port

(*3) Common Port

3. Land Pattern



(in mm)

- Land
- Solder resist
- No pattern
- Solder resist
- Through Hole ϕ 0.30

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

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Please make sure that your product has been evaluated and confirmed from the aspect of the fitness for the specifications of our product when our product is mounted to your product.

All the items and parameters in this product specification/datasheet/catalog have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment specified in this specification. You are requested not to use our product deviating from the condition and the environment specified in this specification.

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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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