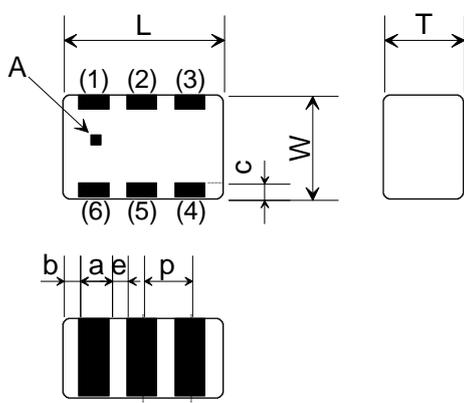


DUAL BAND DIPLEXER

1. Characteristics (at -40 ~ +85 °C)

| | | | |
|---------------------|---------|-----------------------|-----------------------------------------------------------|
| Part Number | | LFD21829MDPFC270 | |
| Pass Band Range | f1 | | 2200.00 ± 490.00 MHz |
| | f2 | | 829.00 ± 131.00 MHz |
| Insertion Loss (dB) | P1 - P3 | in f1 | 0.45 max. (at 25 °C) 0.55 max. (at -40 ~ +85 °C) |
| | P2 - P3 | in f2 | 0.27 dB max. (at 25 °C) 0.32 dB max. (at -40 ~ +85 °C) |
| Attenuation (dB) | P1 - P3 | in f2 | 15.0 min. |
| | P2 - P3 | in f1 | 10.5 min. |
| | | 1565.00 ~ 1607.00 MHz | 5.0 min. |
| V.S.W.R. | P1 | in f1 | 2.00 max. |
| | P2 | in f2 | 1.60 max. |
| | P3 | in f1 | 2.00 max. |
| | | in f2 | 1.60 max. |
| Power Capacity (W) | | 3.0 max. | |

2. Construction, Dimensions & Marking 3. Land Pattern



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

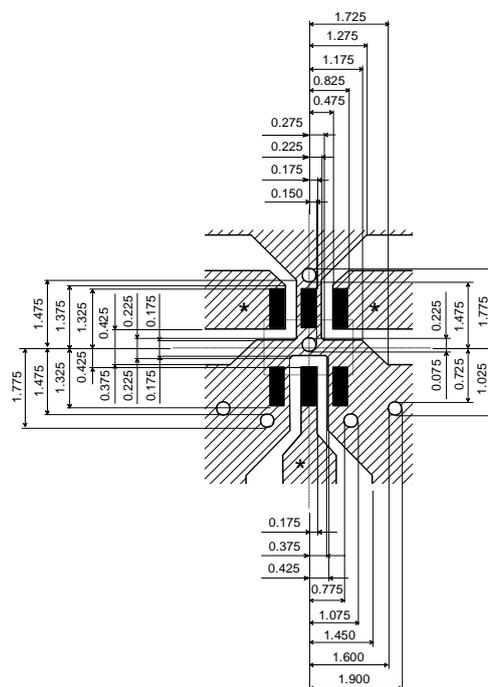
(in mm)

| Mark | Dimension | Mark | Dimension | Mark | Dimension |
|------|-----------|------|-----------------|------|-----------|
| L | 2.00±0.15 | a | 0.30+0.10/-0.15 | e | 0.35±0.10 |
| W | 1.25±0.10 | b | 0.20±0.15 | p | 0.65±0.05 |
| T | 1.0 max. | c | 0.3+0.1/-0.2 | - | - |

TERMINAL CONFIGURATION

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

- (*1) Lower Frequency Port
- (*2) Higher Frequency Port
- (*3) Common Port



- Land
- ▨ Solder resist
- No pattern Solder resist
- Through hole

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

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