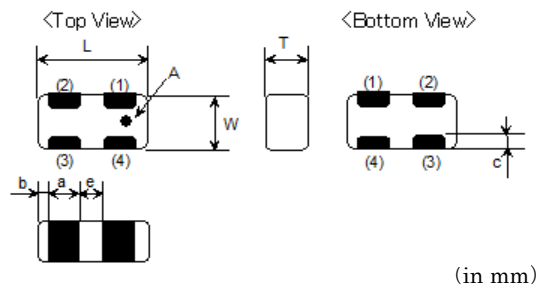


DUAL BAND DIPLEXER

1. Characteristics (at -40 ~+85°C)

| | | | |
|---------------------|------------------|------------------------|--|
| Part number | LFD152G45MU5D935 | | |
| Pass Band Range | f1 | | 2450.00 ± 50.00MHz |
| | f2 | | 5425.00 ± 525.00 MHz |
| Insertion Loss (dB) | P2-P3 | in f1 | 0.55 max.(at 25 °C) 0.60 max. (at -40 ~ +85 °C) |
| | P1-P3 | in f2 | 0.95 max.(at 25 °C) 1.05 max. (at -40 ~ +85 °C) |
| Attenuation(dB) | P2-P3 | 4800.00 – 5000.00 MHz | 19.0 dB min |
| | | 7200.00 – 7500.00 MHz | 14.0 dB min |
| | P1-P3 | 30.00 – 1700.00 MHz | 11.0 dB min |
| | | 1700.00 – 2700.00 MHz | 11.0 dB min |
| | | 9800.00 – 11900.00 MHz | 20.0 dB min |
| V.S.W.R. | P1 | in f2 | 1.70 max. |
| | P2 | in f1 | 1.70 max. |
| | P3 | in f1 | 1.70 max. |
| | | in f2 | 1.70 max. |
| Power Capacity | | | 1 W max. |

2. Construction, Dimensions & Marking



(in mm)

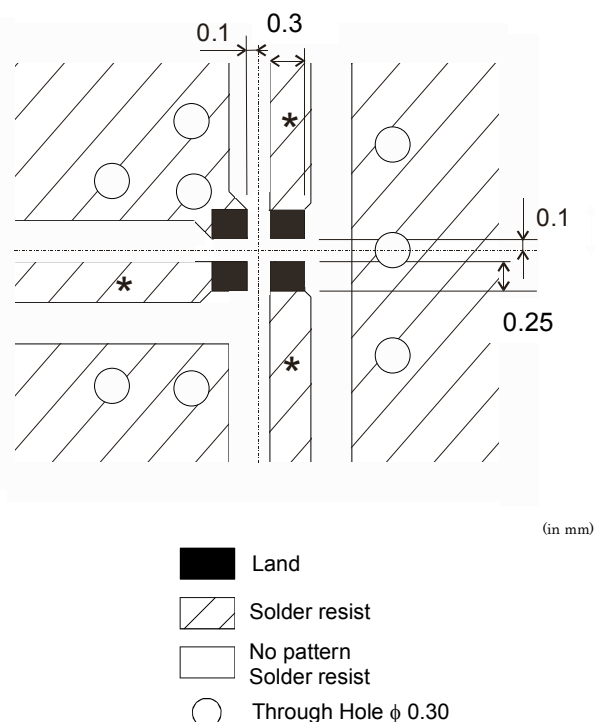
| Mark | Meaning |
|------|------------------------|
| A | Directional Input Mark |

| Mark | Dimension | Mark | Dimension |
|------|--------------------|------|-----------|
| L | 1.000+0.050/-0.075 | b | 0.10±0.10 |
| W | 0.50±0.05 | c | 0.12±0.07 |
| T | 0.40max | e | 0.20±0.10 |
| a | 0.30±0.10 | | |

TERMINAL CONFIGURATION

| Terminal No | Terminal Name | Terminal No | Terminal Name |
|-------------|---------------|-------------|---------------|
| (1) | P3(COM) | (3) | P1(5G) |
| (2) | GND | (4) | P2(2.4G) |

3. Land Pattern



(in mm)

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

All the technical data and Information contained herein are subject to change without prior notice.

**CAUTION**

PLEASE READ THIS NOTICE BEFORE USING OUR PRODUCTS.

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.

Please note that the only warranty that we provide regarding the products is its conformance to the specifications provided herein. Accordingly, we shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those 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.
- Aerospace equipment
- Power plant control equipment
- Transportation equipment (vehicles, trains, ships, elevator, etc.).
- Disaster prevention / crime prevention equipment.

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