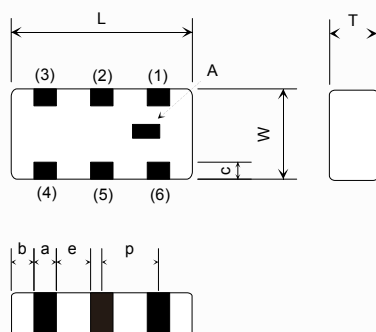


DUAL BAND DIPLEXER

1. Characteristics (at -40 ~+85°C)

Part Number			LFD182G45MJ6D431
Pass Band Range	f1		2450.00 ± 50.00MHz
	f2		5425.00 ± 525.00 MHz
Insertion Loss (dB)	P1-P3	in f1	0.55 max.(at 25 °C) 0.60 max. (at -40 ~ +85 °C)
	P2-P3	in f2	0.70 max.(at 25 °C) 0.80 max. (at -40 ~ +85 °C)
Attenuation (dB)	P1-P3	4800 – 4992	29.0 min.
		7200 – 7488	24.0 min.
	P2-P3	30 – 2700	32.0 min.
		9800 – 11900	15.0 min.
		14700 - 17850	11.0 min.
V.S.W.R.	P1	in f1	1.80 max.
	P2	in f2	1.80 max.
	P3	in f1	1.80 max.
		in f2	1.80 max.
Isolation (dB)	P1 – P2	30 – 2700	32dB min.
		in f2	28dB min.
Power Capacity			2W max.

2. Construction, Dimensions & Marking



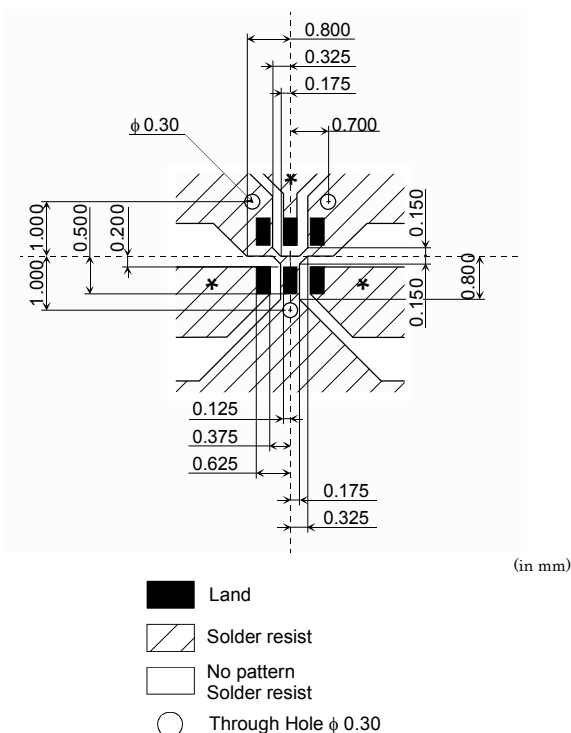
Mark	Meaning
A	Directional Input Mark

(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 ± 0.15	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)	GND	(4)	Lower Frequency Port (P1)
(2)	Common Port (P3)	(5)	GND
(3)	GND	(6)	Higher Frequency Port (P2)



*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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Furthermore, YOU AGREE TO INDEMNIFY AND DEFEND US AND OUR AFFILIATES AGAINST ALL CLAIMS, DAMAGES, COSTS, AND EXPENSES THAT MAY BE INCURRED, INCLUDING WITHOUT LIMITATION, ATTORNEY FEES AND COSTS, DUE TO THE USE OF OUR PRODUCTS IN SUCH APPLICATIONS.

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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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When you are not able to return the signed version of specification sheet or approval sheet within 90 days from receiving date of specification sheet or approval sheet, it shall be deemed to be your consent on the content of specification sheet or approval sheet.

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