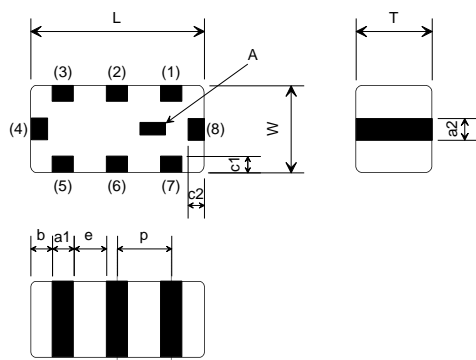


DUAL BAND DIPLEXER

1. Characteristics (at -40°C to +85°C)

Part Number	LFD182G45DCHD481	
Pass Band Range	f1	
	5425.00 ± 525.00 MHz	
	f2	
	2450.00 ± 50.00 MHz	
Insertion Loss	P1-P3	in f1
	1.00 max at 25°C 1.10 max (at -40 to +85 °C)	
	P2-P3	in f2
	0.40 max at 25°C 0.50 dB max (at -40 to +85 °C)	
Attenuation	P1-P3	at 2400.00~2500.00 MHz
		at 7200.00~7500.00 MHz
		at 9800.00~11900.00 MHz
	P2-P3	at 4800.00~5000.00 MHz
		at 7200.00~7500.00 MHz
V.S.W.R.	P1	in f1
	P2	in f2
	P3	in f1 / f2
Power Capacity	1 W max.	

2. Construction, Dimensions & Marking 3. Land Pattern



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

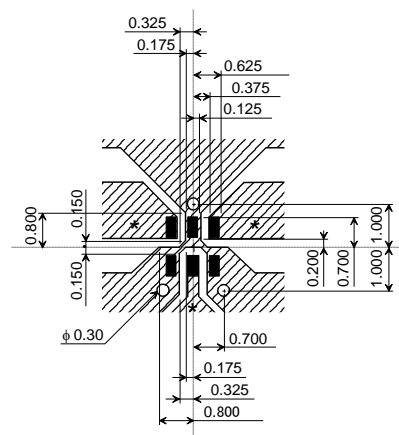
Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	P1(*1)	(5)	GND
(2)	GND	(6)	P3 (*3)
(3)	P2(*2)	(7)	GND
(4)	NC	(8)	NC

NC terminal should not be fixed to any pattern.

(*1) Higher Frequency Port

(*2) Lower Frequency Port

(*3) Common Port



- 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.

**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.

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- | | |
|---|---|
| - Aircraft equipment. | - 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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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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