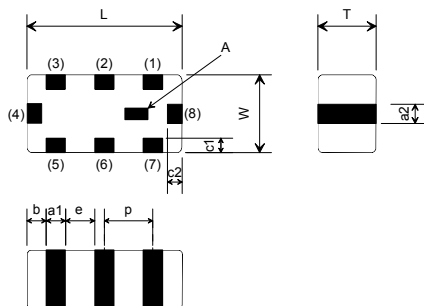


DUAL BAND DIPLEXER

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

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

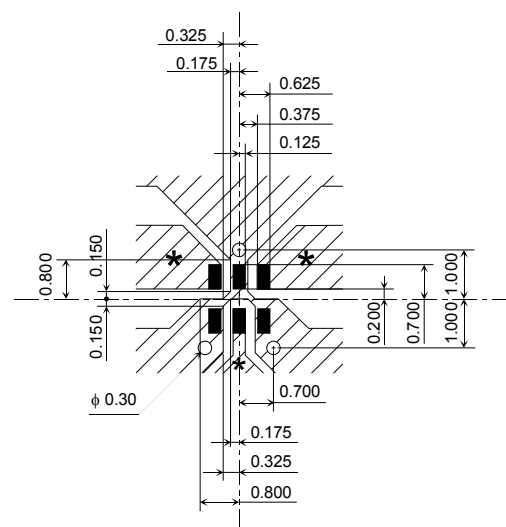
NC terminal should not be fixed to any pattern.

(*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 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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Customer acknowledges that Murata will, if requested by you, conduct a failure analysis for defect or alleged defect of Products only at the level required for consumer grade Products, and thus such analysis may not always be available or be in accordance with your request (for example, in cases where the defect was caused by components in Products supplied to Murata from a third party).

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