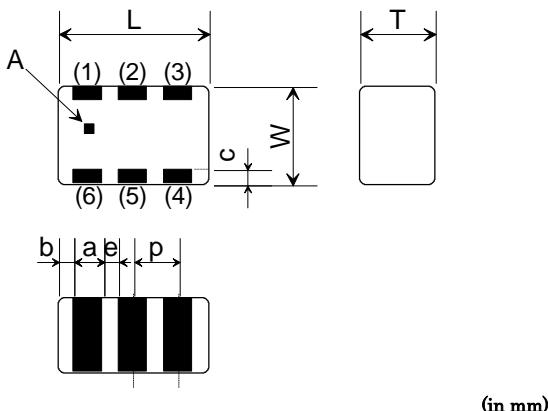


## DUAL BAND DIPLEXER(Preliminary)

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

Part Number	LFD212G45DF5B859		
Pass Band Range	f1	5425.00 ± 525.00 MHz	
	f2	2450.00 ± 50.00 MHz	
Insertion Loss (dB)	P1-P3	0.80 max.(at 25 °C) 0.90 max. (at -40 to +85 °C)	
	P2-P3	0.50 dB max.(at 25 °C) 0.60 dB max. (at -40 to +85 °C)	
Attenuation (dB)	P1-P3	in 1800.00-2500.00 MHz 2 x f1 3 x f1	25.0 min. 25.0 min. 15.0 min.
		P2-P3 4800.00-6000.00 MHz	20.0 min. 20.0 min.
			20.0 min.
V.S.W.R.	P1	in f1	2.00 max.
	P2	in f2	2.00 max.
	P3	in f1,f2	2.00 max.
Power Capacity			3 W max.

## 2. Construction, Dimensions &amp; Marking



Mark	Meaning
A	Directional Input Mark
Mark	Dimension
L	2.0 ± 0.15
W	1.25 ± 0.10
T	1.0 max.
a	0.30 ± 0.10 / -0.15
b	0.20 ± 0.15
c	0.30 ± 0.10 / -0.20
e	0.35 ± 0.10
p	0.65 ± 0.05

## TERMINAL CONFIGURATION

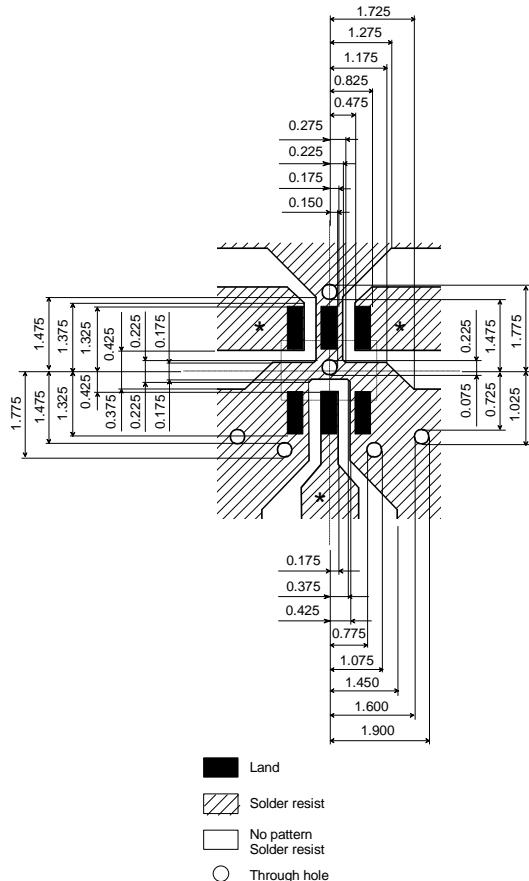
Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	P2(*1)	(4)	GND
(2)	GND	(5)	P3(*3)
(3)	P1(*2)	(6)	GND

(\*1)Lower Frequency Port

(\*2)Higher Frequency Port

(\*3)Common Port

## 3. Land Pattern



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

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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.	- 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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