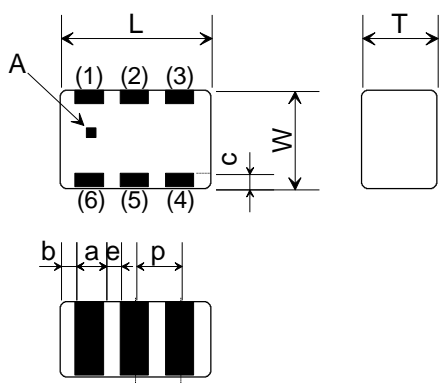


DUAL BAND DIPLEXER(Preliminary)

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	in f1	0.80 max.(at 25 °C) 0.90 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	in 1800.00-2500.00 MHz	25.0 min.
		2 x f1	25.0 min.
		3 x f1	15.0 min.
	P2-P3	in 4800.00-6000.00 MHz	20.0 min.
		3 x f2	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&Marking



(in mm)

Mark	Meaning
A	Directional Input Mark

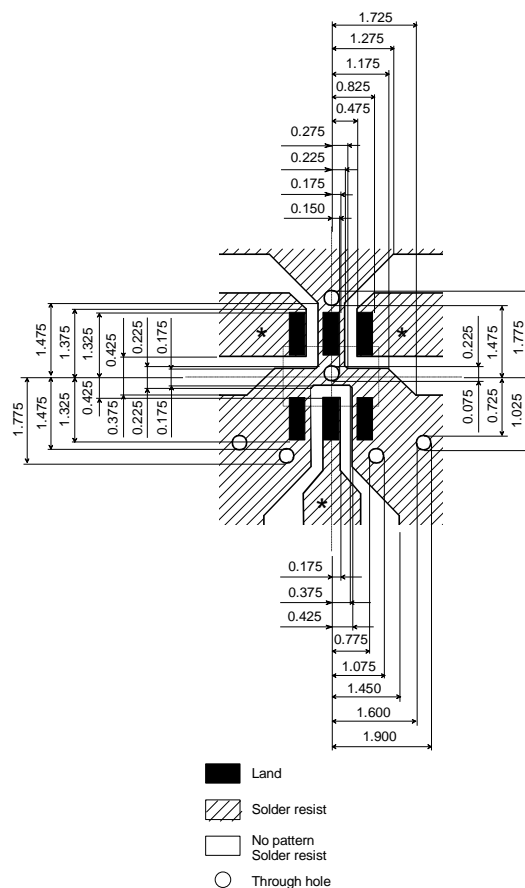
Mark	Dimension	Mark	Dimension
L	2.0 0±0.15	b	0.20±0.15
W	1.25 ± 0.10	c	0.30 +0.10 / -0.20
T	1.0 max.	e	0.35 ± 0.10
a	0.30+0.10 / -0.15	p	0.65 ± 0.05

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



- Land
- Solder resist
- No pattern Solder resist
- Through hole

*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.

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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.

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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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