

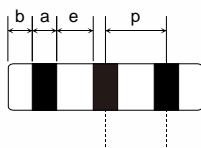
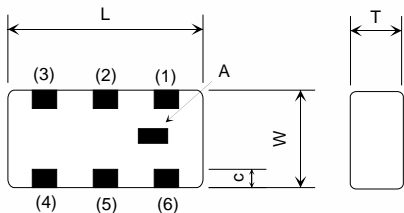
## DUAL BAND DIPLEXER

### 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

### 3. Land Pattern



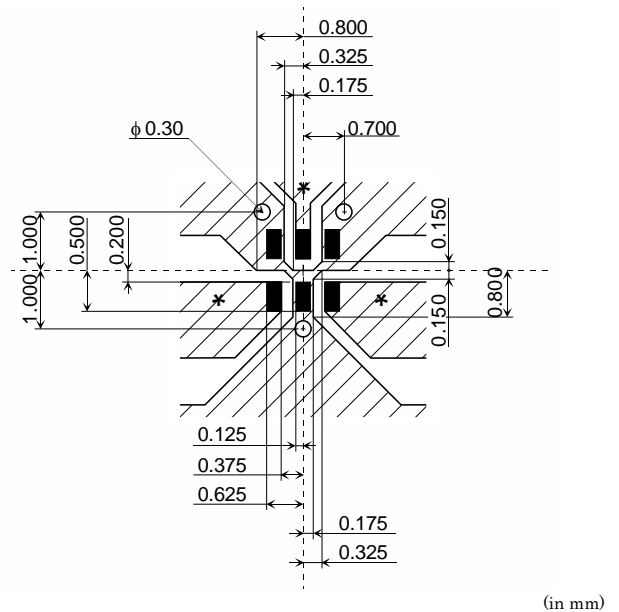
Mark	Meaning
A	Directional Input Mark

(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)



(in mm)

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

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- Medical equipment.
- Traffic signal equipment.
- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.
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