

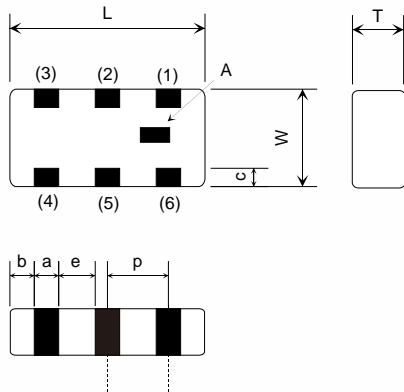
DUAL BAND DIPLEXER

1. Characteristics (at -40 ~+85°C)

Part Number			LFD182G45MJ5E355
Pass Band Range	f1		5425.00 ± 525.00 MHz
	f2		2450.00 ± 50.00MHz
Insertion Loss (dB)	P2-P3	in f2	0.60 max.(at 25 °C) 0.65 max. (at -40 ~ +85 °C)
	P1-P3	in f1	0.70 max.(at 25 °C) 0.80 max. (at -40 ~ +85 °C)
Attenuation (dB)	P2-P3	4800 – 4992	32.0 min.
		7200 – 7488	24.0 min.
	P1-P3	30 – 2700	32.0 min.
		9800 – 11900	15.0 min.
		14700 - 17850	11.0 min.
V.S.W.R.	P2	in f2	1.80 max.
	P1	in f1	1.80 max.
	P3	in f2	1.80 max.
		in f1	1.80 max.
Isolation (dB)	P1 – P2	30 – 2700	32.0 dB min.
		in f1	28.0 dB min.
Power Capacity			2W max.

2. Construction,Dimensions&Marking

3. Land Pattern



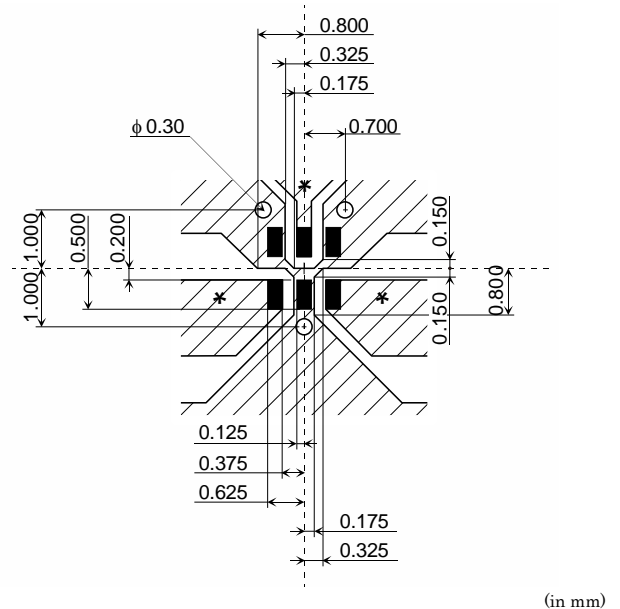
Mark	Meaning
A	Directional Input Mark

(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

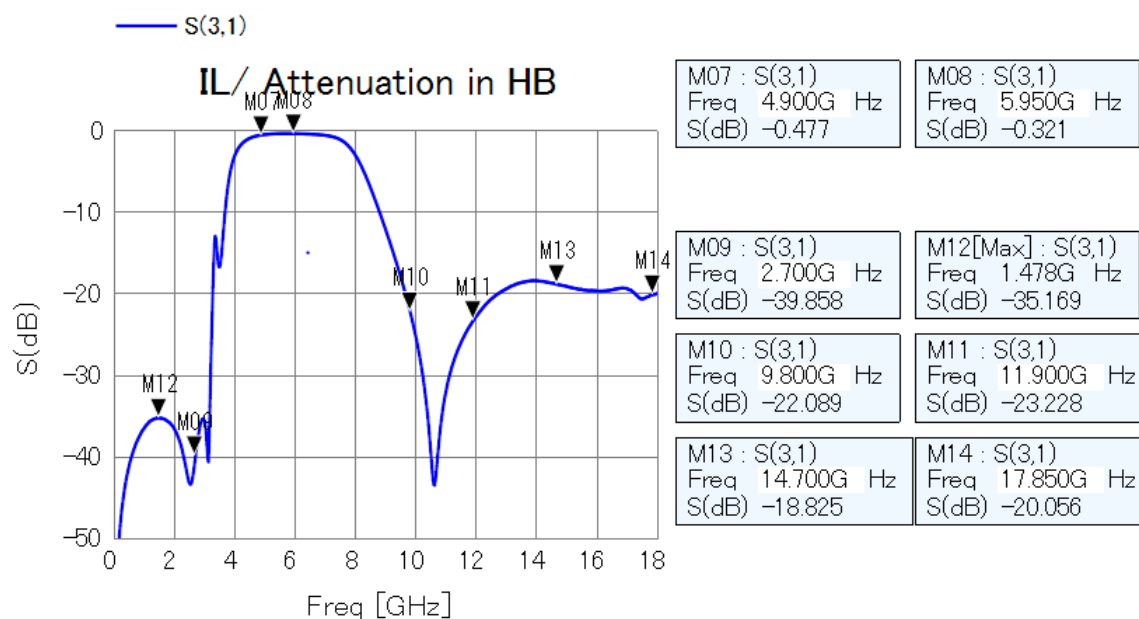
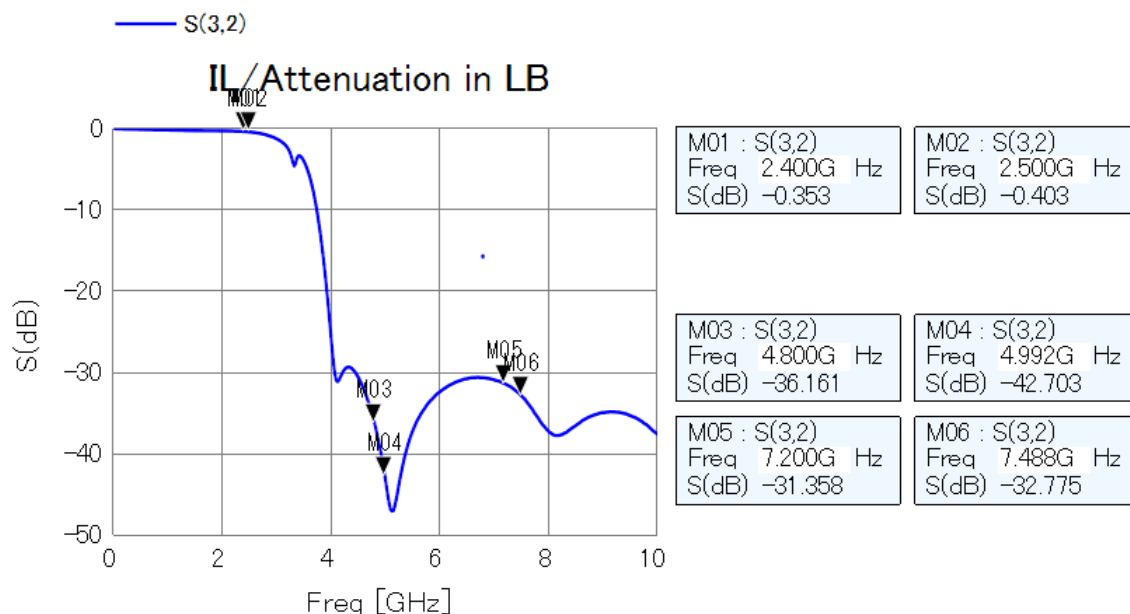
Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	GND	(4)	Higher Frequency Port (P1)
(2)	Common Port (P3)	(5)	GND
(3)	GND	(6)	Lower Frequency Port (P2)

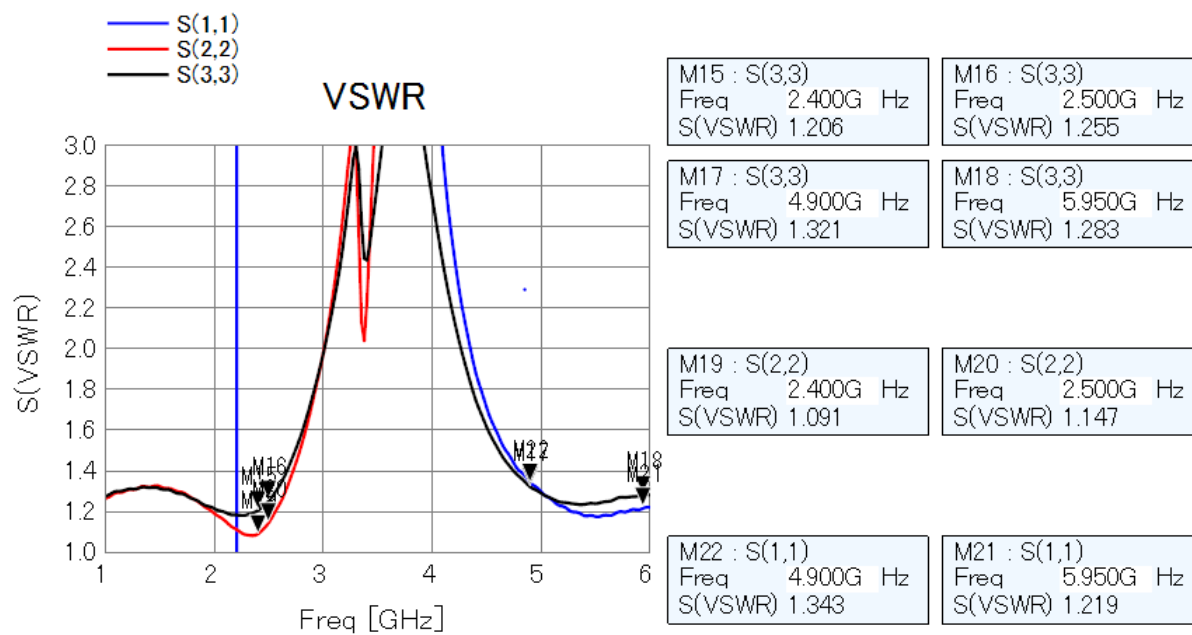


- Land
- Solder resist
- No pattern Solder resist
- Through Hole φ 0.30

*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.





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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.
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- Power plant control equipment
- Transportation equipment (vehicles, trains, ships, elevator, etc.).
- Disaster prevention / crime prevention equipment.

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