

DUAL BAND DIPLEXER

1. Characteristics (at -40 to +85 °C)

Part Number LFD182G45MJLE183

<Low Band >

Pass Band Range		f2	2400.00 ~ 2500.00 MHz	
Insertion Loss(dB)	ANT-LB	in f2	0.65 dB max. at 25°C 0.75 dB max. at -40~ +85°C	
	ANT-LB	at 3600.00~3750.00 MHz	9.0 dB min.	
Attenuation (dB)		at 4800.00~5000.00 MHz	19.0 dB min.	
VSWR		at 7200.00~7500.00 MHz	20.0 dB min.	
		at 9600.00~10000.00 MHz	9.0 dB min.	
	LB	in f2	1.70 max.	
	ANT	in f2	1.70 max.	

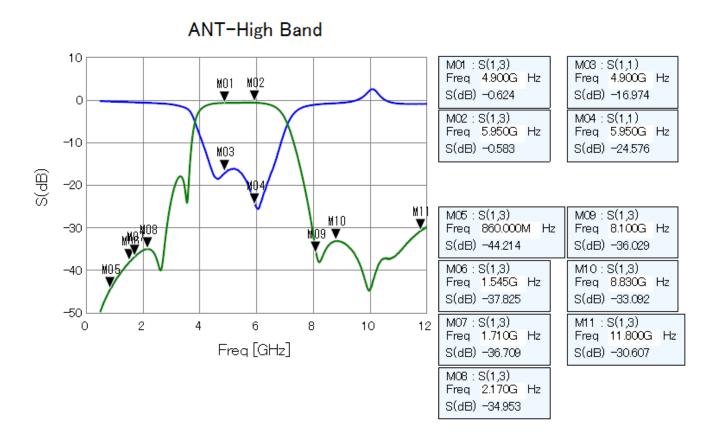
<High Band>

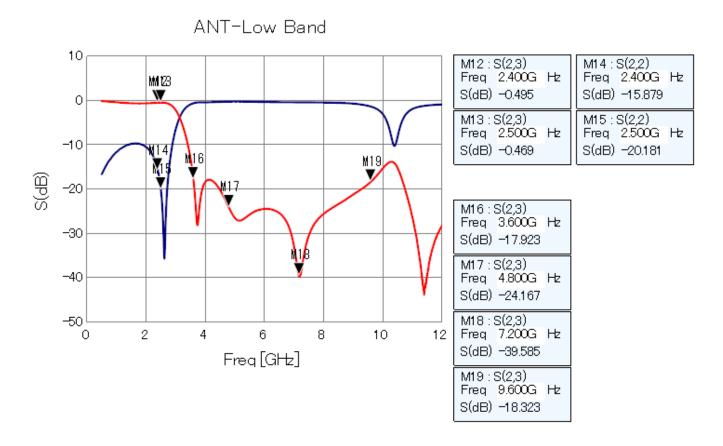
Pass Band Range		f1	4900.00 ~ 5950.00 MHz
Insertion Loss(dB)	ANT-HB	in f1	0.85 dB max. at 25°C 0.95 dB max. at -40~ +85°C
		at 860.00~960.00 MHz	34.0 dB min.
		at 1545.00~1605.00 MHz	29.0 dB min.
		at 1710.00~1990.00 MHz	29.0 dB min.
Attenuation (dB)	ANT-HB	at 2170.00 MHz	29.0 dB min.
		at 8100.00~8800.00 MHz	13.0 dB min.
		at 8820.00~9800.00 MHz	24.0 dB min.
		at 9800.00~11800.00 MHz	22.0 dB min.
VSWR	НВ	in f1	1.70 max.
VOVIN	ANT	in f1	1.70 max.

Isolation (dB)	LB-HB	19.50 min.	
Power Capacity			2 W max.

LB: Low Band Port
HB: High Band Port
ANT: Common Port

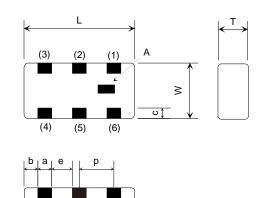








2. Construction, Dimensions & Marking



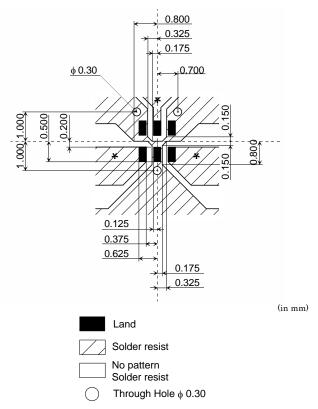
Mark	Meaning
A	Directional Input Mark

					(111 111111)
Mark	Dimension	Mark	Dimension	Mark	Dimension
L	1.6 ± 0.1	а	0.2 ± 0.1	е	0.3 ± 0.1
W	0.8 ± 0.1	b	0.20 ± 0.15	р	0.50 ± 0.05
Т	0.70 max.	С	0.15 ± 0.10	-	-

TERMINAL CONFIGURATION

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

3. Land Pattern



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





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- Medical equipment.

- Aerospace equipment
- Undersea equipment.
- Power plant control equipmentTransportation equipment (vehicles, trains, ships, elevator, etc.).
- Traffic signal equipment.
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- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.

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