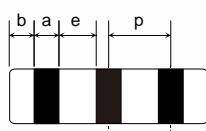
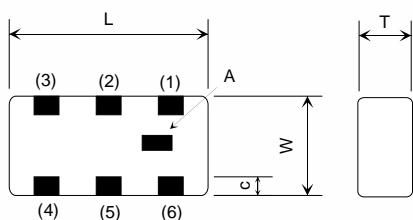


DIPLEXER

1. Characteristics (at -40 ~+85°C)

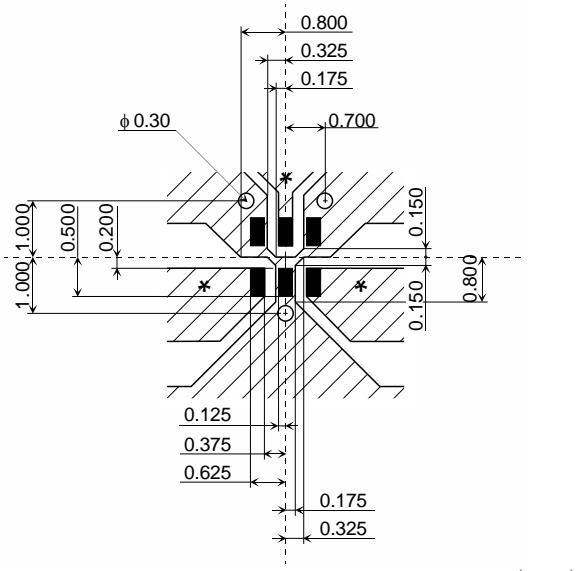
Part Number		LFD182G45MJFE023	
Pass Band Range	f1		2400.00 ~ 2500.00 MHz
	f2		5150.00 ~ 5850.00 MHz
Insertion Loss (dB)	P2 - P3	in f1	0.60 dB max. (at 25 °C) 0.70 dB max. (at -40 ~ +85 °C)
	P1 - P3	in f2	1.60 dB max. (at 25 °C) 1.70 dB max. (at -40 ~ +85 °C)
Attenuation (dB)	P2 - P3	4800.00 ~ 5000.00 MHz	27.0 dB min.
		7200.00 ~ 7500.00 MHz	29.0 dB min.
	P1 - P3	2400.00 ~ 2500.00 MHz	27.0 dB min.
		3400.00 ~ 3900.00 MHz	11.0 dB min.
		3600.00 MHz	11.0 dB min.
		7200.00 MHz	13.0 dB min.
		7250.00 ~ 7550.00 MHz	21.0 dB min.
		10600.00 ~ 11700.00 MHz	23.0 dB min.
		15300.00 ~ 16200.00 MHz	12.0 dB min.
V.S.W.R.	P1	in f2	2.1 max
	P2	in f1	2.1 max
	P3	in f1	2.1 max
		in f2	2.1 max
Power Capacity		2W max.	

2. Construction, Dimensions&Marking



Mark	Meaning
A	Directional Input Mark
(in mm)	
Mark	Dimension
L	1.6 ± 0.1
W	0.8 ± 0.1
T	0.65 max.
a	0.2 ± 0.1
b	0.20 ± 0.15
c	0.15 ± 0.10
e	0.3 ± 0.1
p	0.50 ± 0.05

3. Land Pattern



■ Land

/ / Solder resist

□ No pattern
Solder resist○ Through Hole $\phi 0.30$

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

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)

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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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