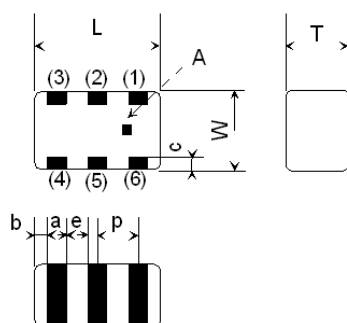


# DIPLEXER

## 1. Characteristics ( at -40~+85°C )

Part Number			LFD212G45MJGR121
Pass Band Range	f2		2450.00 ± 50.00MHz
	f1		5515.00 ± 365.00MHz
Insertion Loss (dB)	P2 - P3	f2	0.6dB max (at 25℃) 0.7dB max (at -40～+85℃)
	P1 - P3	f1	0.7dB max (at 25℃) 0.8dB max (at -40～+85℃)
Attenuation (dB)	P2 - P3	3600.00 MHz	2.0dB min
		4800.00 - 5000.00 MHz	24.0dB min
		7200.00 - 7500.00 MHz	21.0dB min
	P1 - P3	2400.00 - 2500.00 MHz	24.0dB min
		3400.00MHz	6.0dB min
		3900.00 MHz	6.0dB min
		9800.00 - 11700.00 MHz	19.0dB min
		15000.00 - 18000.00 MHz	19.0dB min
V.S.W.R.	P2	f2	2.1 max
	P1	f1	2.1 max
	P3	f2	2.1 max
		f1	2.1 max
Power Capacity			2W max

## 2.Construction, Dimensions&Marking



Mark	Meaning
A	Directional Input Mark

Mark	Dimension	Mark	Dimension	Mark	Dimension
L	2.00±0.15	a	0.30±0.15	e	0.35±0.10
W	1.25±0.10	b	0.20±0.15	p	0.65±0.05
T	0.5max.	c	0.30±0.2	-	-

### TERMINAL CONFIGURATION

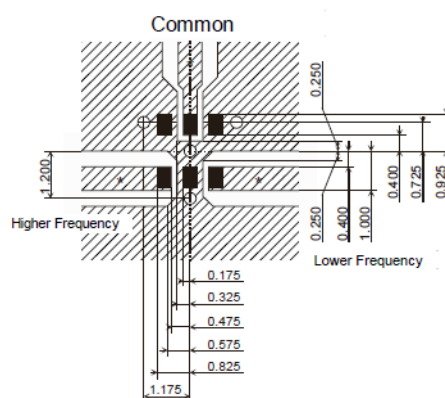
Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	GND	(4)	P1 (*1)
(2)	P3(*3)	(5)	GND
(3)	GND	(6)	P2 (*2)

(\*1) Higher Frequency Port

(\*2) Lower Frequency Port

(\*3) Common Port

## 3. Land Pattern



Land

Solder resist

No pattern  
Solder resist

Through Hole  $\phi$  0.30

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

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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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