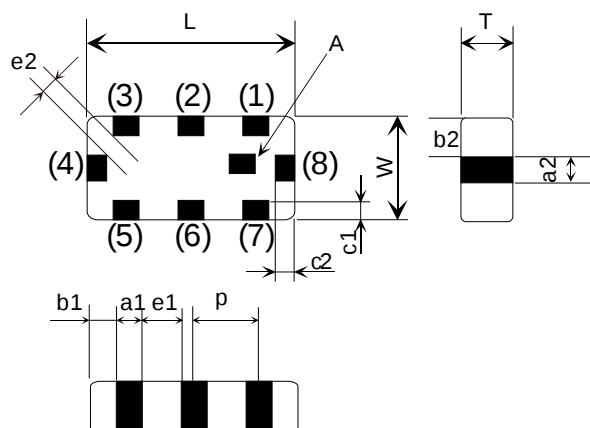


Diplexer

1. Characteristics (at -40~ +85 °C)

Part Number			LFD182G45DJ1D358
Pass Band Range	f1		5500.00 ± 400.00 MHz
	f2		2450.00 ± 50.00 MHz
Insertion Loss (dB)	P1 - P3	in f1	1.00 max. (at 25°C) 1.10 max. (at -40 ~ +85°C)
	P2 - P3	in f2	0.40 max. (at 25°C) 0.50 max. (at -40 ~ +85°C)
Attenuation (dB)	P1 - P3	1800.00~2500.00 MHz	25.0 min.
		3700.00~3900.00 MHz	24.0 min.
		9800.00~11900.00 MHz	22.0 min.
	P2 - P3	4800.00~5000.00 MHz	22.0 min.
		7200.00~7500.00 MHz	24.0 min.
V.S.W.R.	P1	in f1	1.90 max.
	P2	in f2	1.60 max.
	P3	in f1	1.90 max.
		in f2	1.60 max.
Power Capacity			2 W max.

2. Construction, Dimensions & Marking



Mark	Meaning
A	Directional Input Mark

(in mm)

Mark	Dimension	Mark	Dimension	Mark	Dimension
L	1.6 ± 0.1	a2	0.2 ± 0.1	c2	0.15 ± 0.10
W	0.8 ± 0.1	b1	0.20 ± 0.15	e1	0.3 ± 0.1
T	0.7 Max.	b2	0.30 ± 0.15	e2	> 0.10
a1	0.2 ± 0.1	c1	0.15 ± 0.10	p	0.50 ± 0.05

TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	P1 (*1)	(5)	GND
(2)	GND	(6)	P3 (*3)
(3)	P2 (*2)	(7)	GND
(4)	NC	(8)	NC

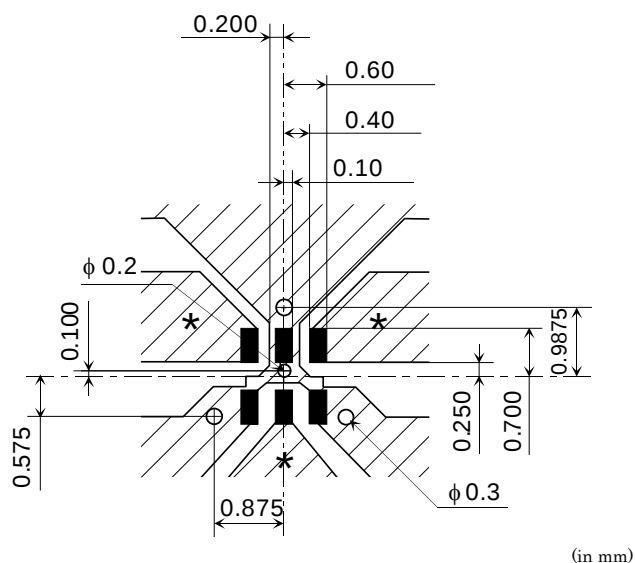
'NC' terminal should not be fixed to any pattern.

(*1) Higher Frequency Port

(*2) Lower Frequency Port

(*3) Common Port

3. Land Pattern



- 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.

**CAUTION**

PLEASE READ THIS NOTICE BEFORE USING OUR PRODUCTS.

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- Aerospace equipment
- Undersea equipment.
- Power plant control 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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