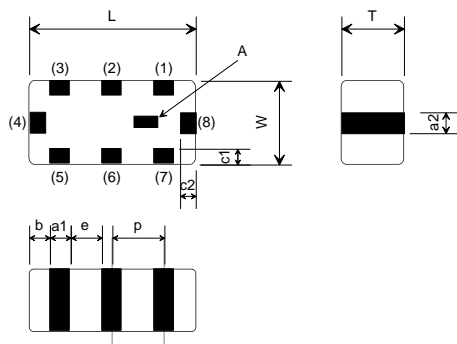


DUAL BAND DIPLEXER

1. Characteristics (at -40 to +85 °C)

Part Number			LFD182G45DCJD247
Pass Band Range	f1		2450.00 ± 50.00 MHz
	f2		5425.00 ± 525.00 MHz
Insertion Loss (dB)	P1-P3	in f1	0.35 max. (at 25 °C) 0.45 max. (at -40 to +85 °C)
	P2-P3	in f2	0.50 dB max. (at 25 °C) 0.60 dB max. (at -40 to +85 °C)
Attenuation (dB)	P1-P3	at 4800.00~5000.00 MHz	20.0 min.
		at 5000.00~5950.00 MHz	22.0 min.
		at 7200.00~7500.00 MHz	20.0 min.
	P2-P3	at 824.00~2170.00 MHz	26.0 min.
		at 2400.00~2500.00 MHz	30.0 min.
		at 9800.00~11900.00 MHz	25.0 min.
V.S.W.R.	P1	in f1	1.80 max.
	P2	in f2	1.80 max.
	P3	in f1, f2	1.80 max.
Power Capacity			3 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	e	0.3 ± 0.1
W	0.8 ± 0.1	b	0.20 ± 0.15	p	0.50 ± 0.05
T	0.7 Max.	c1	0.15 ± 0.10	-	-
a1	0.2 ± 0.1	c2	0.15 ± 0.10	-	-

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

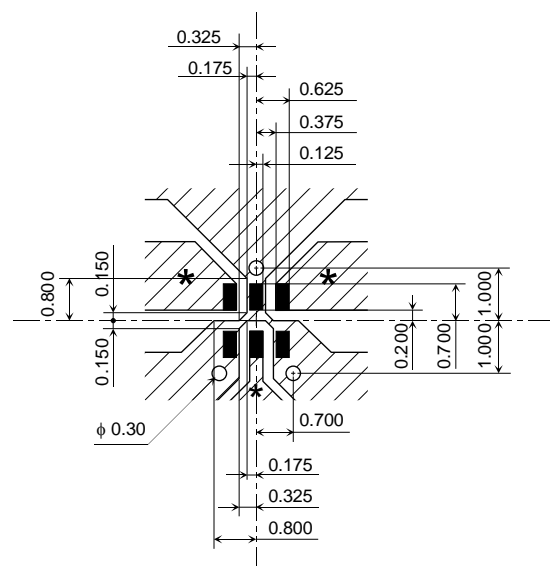
'NC' terminal should not be fixed to any pattern.

(*1) Lower Frequency Port

(*2) Higher Frequency Port

(*3) Common Port

3. Land Pattern



(in mm)

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

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

**CAUTION**

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- Medical equipment.
- Traffic signal equipment.
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