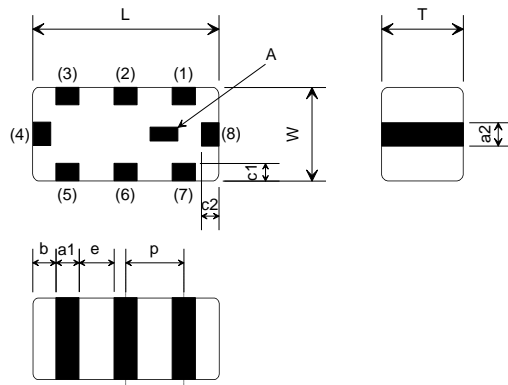


DUAL BAND DIPLEXER

1. Characteristics (at -40 to +85 °C)

Part Number			LFD182G45DCHD277
Pass Band Range	f1		5425.00 ± 525.00 MHz
	f2		2450.00 ± 50.00 MHz
Insertion Loss (dB)	P1-P3	in f1	0.50 dB max.(at 25 °C) 0.60 dB max. (at -40 to +85 °C)
	P2-P3	in f2	0.35 max.(at 25 °C) 0.45 max. (at -40 to +85 °C)
Attenuation (dB)	P1-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.
	P2-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.
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 3. Land Pattern



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

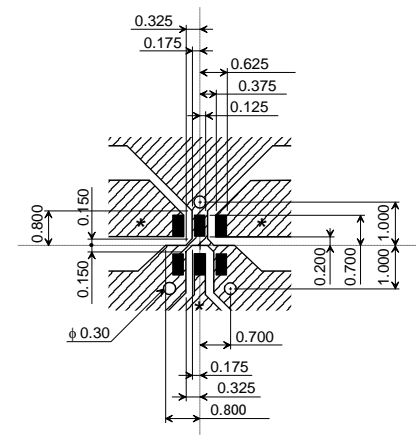
Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	P1(*1)	(5)	GND
(2)	GND	(6)	P3 (*3)
(3)	P2(*2)	(7)	GND
(4)	NC	(8)	NC

NC terminal should not be fixed to any pattern.

(*1) Higher Frequency Port

(*2) Lower Frequency Port

(*3) Common Port



- 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.

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Please note that the only warranty that we provide regarding the products is its conformance to the specifications provided herein. Accordingly, we shall not be responsible for any defects in products or equipment incorporating such products, which are caused under the conditions other than those specified in this specification.

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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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- Transportation equipment (vehicles, trains, ships, elevator, etc.).
- Disaster prevention / crime prevention equipment.

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