



Dual Band Diplexer

Part Number : LFD182G45PJ4F520

1. Maximum Ratings

	Ratings	Conditions
Operating Temperature	-40 ~ +85 °C	
Power Capacity	1.5W	50Ω Load

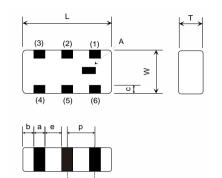
2. Electrical Characteristics (at -40 \sim +85 $^{\circ}\text{C}$)

Low Band

Item		Frequency (MHz)	SPEC			Unit
		Frequency (IVIEZ)	Min.	Typ.(+25°C)	Max.	Unit
Insertion Loss	at +25°C	2400.00 ~ 2500.00	-	0.47	0.60	dB
Insertion Loss	at -40~+85°C	2400.00 ~ 2500.00	-	0.47	0.70	dB
Return Loss		2400.00 ~ 2500.00	12.0	22.4	-	dB
Attenuation (Absolute value)		4800.00 ~ 5000.00	32.0	41.5	-	dB
		7200.00 ~ 7500.00	25.0	34.8	-	dB
High Band						
Item			SPEC			1.1
		Frequency (MHz)	Min.	Typ.(+25°C)	Max.	Unit
Insertion Loss	at +25°C	5170.00 ~ 7125.00	-	0.64	0.95	dB
	at -40~+85°C	5170.00 ~ 7125.00	-	0.64	1.10	dB
Return Loss		5170.00 ~ 7125.00	10.0	17.9	-	dB
Attenuation (Absolute value)		2400.00 ~ 2500.00	25.0	36.6	-	dB
		10340.00 ~ 14250.00	25.0	41.5	-	dB
		15510.00 ~ 21375.00	19.5	28.4	-	dB
Common		•		•		
Item			SPEC			Linit
		Frequency (MHz)	Min.	Typ.(+25°C)	Max.	Unit
Return Loss		2400.00 ~ 2500.00	12.0	19.1	-	dB
		5170.00 ~ 7125.00	10.0	16.2	-	dB
Isolation		•				
ltem			SPEC			Unit
		Frequency (MHz)	Min.	Typ.(+25°C)	Max.	Unit
Isolation LB-HB		2400.00 ~ 2500.00	25.0	36.1	-	dB
		5170.00 ~ 7125.00	30.0	37.1	-	dB



3. Construction, Dimensions & Marking



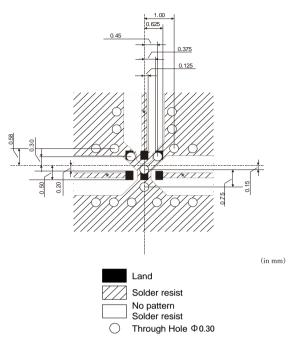
34.3	
Mark	Meaning
Α	Directional Input Mark
	(in mm)

					,,
Mark	Dimension	Mark	Dimension	Mark	Dimension
L	1.6 +/- 0.1	a	0.2 +/- 0.1	е	0.3 +/- 0.1
w	0.8 +/- 0.1	b	0.20 +/- 0.15	р	0.50 +/- 0.05
Т	0.65 max.	с	0.15 +/- 0.10	-	-

TERMINAL CONFIGURATION

Te	erminal No.	Terminal Name	Terminal No.	Terminal Name
	(1)	GND	(4)	P1:Low Band Port
	(2)	P3:Common Port	(5)	GND
	(3)	GND	(6)	P2:High Band Port

4. Land Pattern



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







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- Application of similar complexity and/ or reliability requirements to the applications listed in the above.

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