

2.4/5GHz DIPLEXER

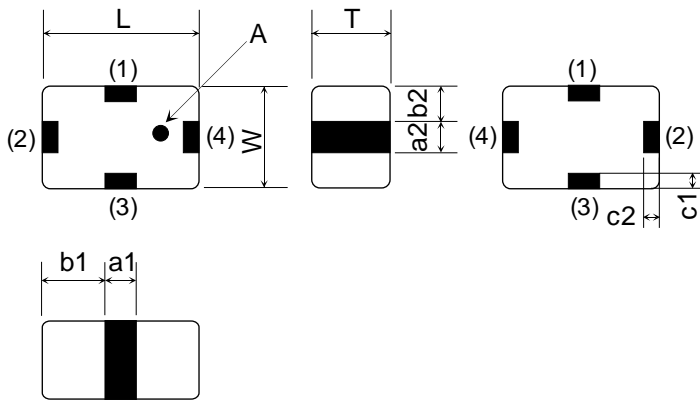
1. Characteristics (at -40°C~+85°C)

Part Number		LFD152G45MT1D824	
Pass Band Range	Low Band (f1)	2450.00 ± 50.00 MHz	
	High Band (f2)	5375.00 ± 475.00 MHz	
<Low Band> 2.4G			
Insertion Loss	ANT – Low Band (f1)	at 25 °C	0.55 dB max.
		-40 °C ~+85 °C	0.60 dB max
V.S.W.R.	Low Band (f1)	1.75 max.	
Attenuation	ANT – Low Band	4800.00 ~ 5000.00 MHz	15.0 dB min.
		7200.00 ~ 7500.00 MHz	15.0 dB min.
Isolation	Low Band – High Band	4900.00 ~ 5850.00 MHz	16.0 dB max.
<High Band> 5G			
Insertion Loss	ANT – High Band (f2)	at 25 °C	1.0 dB max.
		-40 °C ~+85 °C	1.05 dB max
V.S.W.R.	High Band (f2)	1.89 max.	
Attenuation	ANT – High Band	824.00 ~ 915.00 MHz	17.5 dB min.
		2400.00 ~ 2500.00 MHz	17.5 dB min.
		9800.00 ~ 11900.00 MHz	10.0dB min.
Isolation	High Band – Low Band	2400.00 ~ 2500.00 MHz	16.5 dB max.
<ANT Port>			
V.S.W.R.	ANT (f1, f2)	1.89 max.	
Power Capacity (ANT - High Band, ANT - Low Band)		1.0 W max.	

2. Construction, Dimensions & Marking

<Top View>

<Bottom View>



(in mm)

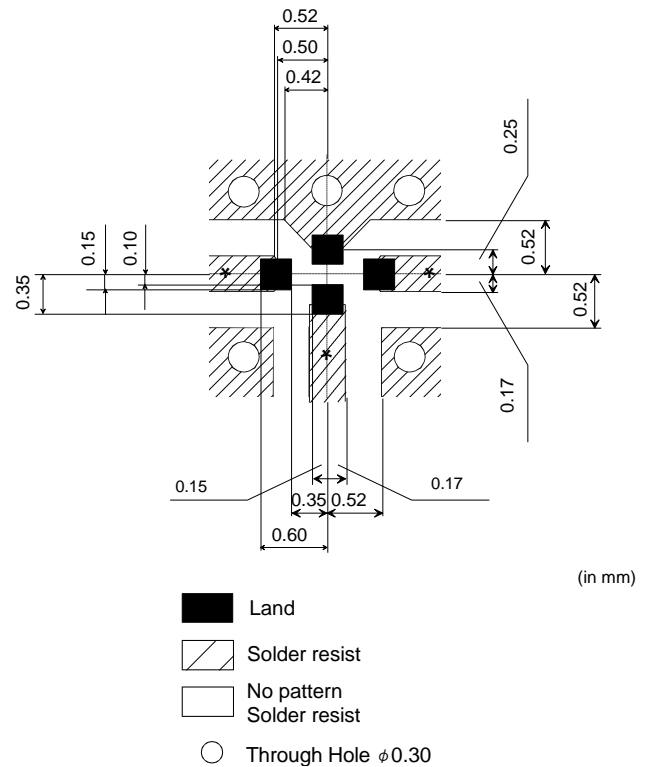
Mark	Meaning
A	Directional Input Mark

Mark	Dimension	Mark	Dimension
L	1.00 ± 0.05	a2	0.3 ± 0.1
W	0.50 ± 0.05	b	0.35 ± 0.10
T	0.40 max.	c1	0.10 ± 0.05
a1	0.3 ± 0.1	c2	0.10 ± 0.05

TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	P3 (COM)	(3)	GND
(2)	P1 (5G)	(4)	P2 (2.4G)

3. Land Pattern



(in mm)

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

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- 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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