

DUAL Band Diplexer for WiFi 2G/ 5-7G

1. Characteristics (at -40~+85°C)

Part Number	LFD152G45MUAF201
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<Low Band >

Pass Band Range		f2	2400.00 ~ 2500.00MHz
Insertion Loss(dB)	ANT-LB	1164.00 ~ 1610.00MHz	0.45 max at 25degC 0.55 max at -40~+85degC.
		2400.00 ~ 2500.00MHz	0.65 max at 25degC 0.75 max at -40~+85degC.
		2496.00 ~ 2690.00MHz	0.80 max at 25degC 0.90 max at -40~+85degC.
Attenuation (dB)	ANT-LB	4800.00 ~ 6000.00 MHz	15.0 min
		5150.00 ~ 7125.00 MHz	15.0 min
		7200.00 ~ 7500.00 MHz	20.0 min
V.S.W.R. in BW	LB	in 1164.00 ~ 2500.00MHz	1.92 min
	ANT	in 1164.00 ~ 2500.00MHz	1.92 min

<High Band>

Pass Band Range		f1	5150.00 ~ 7125.00MHz
Insertion Loss(dB)	ANT-HB	5150.00 ~ 5950.00 MHz	0.95 max at 25degC 1.05 max at -40~+85degC.
		5950.00 ~ 6245.00 MHz	0.95 max at 25degC 1.10 max at -40~+85degC.
		6245.00 ~ 7125.00 MHz	0.95 max at 25degC 1.10 max at -40~+85degC.
Attenuation (dB)	ANT-HB	500.00 ~ 2400.00 MHz	24.0 min
		2400.00 ~ 2500.00 MHz	26.0 min
		2500.00 ~ 2690.00 MHz	19.0 min
		10300.00 ~ 11900.00 MHz	9.0 min
		11900.00 ~ 12490.00 MHz	13.5 min
		12490.00 ~ 14250.00 MHz	11.5 min
		15510.00 ~ 21375.00 MHz	8.0 min
V.S.W.R. in BW	HB	5150.00 ~ 5950.00 MHz	2.1 min
		5950.00 ~ 6245.00 MHz	2.1 min
		6245.00 ~ 7125.00 MHz	2.1 min
	ANT	5150.00 ~ 5950.00 MHz	2.1 min
		5950.00 ~ 6245.00 MHz	2.2 min
		6245.00 ~ 7125.00 MHz	2.2 min

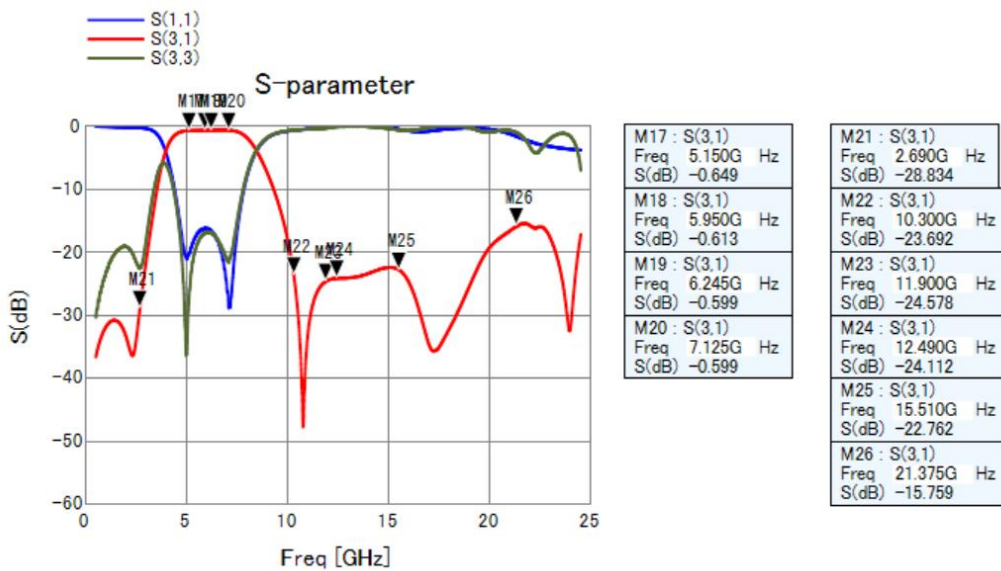
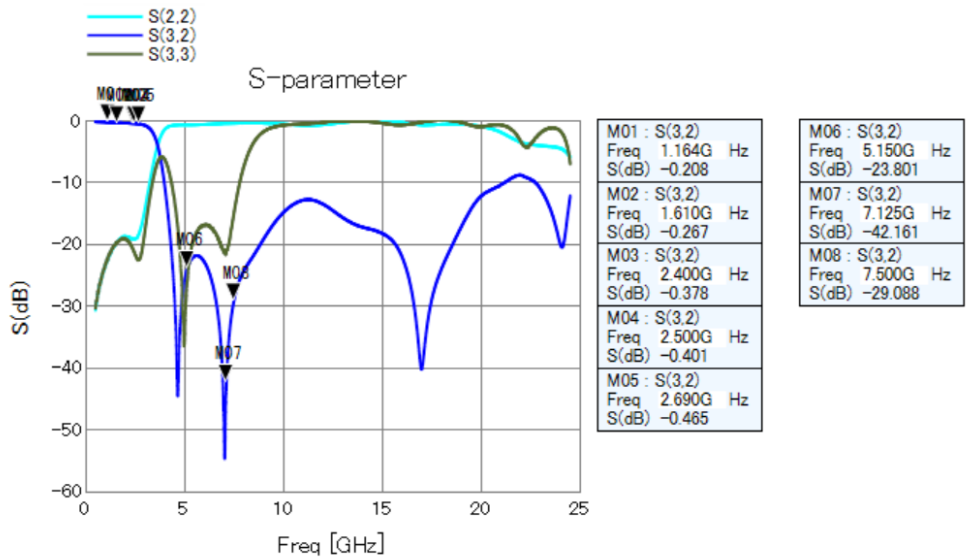
Isolation (dB)	LB-HB	2400.00 ~ 2500.00MHz	24.0 min
		5150.00 ~ 5950.00 MHz	16.0 min
		5950.00 ~ 6245.00 MHz	15.5 min
		6245.00 ~ 7125.00 MHz	16.5 min

Power Capacity	1 W max
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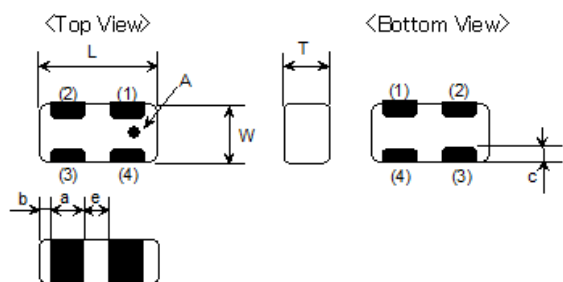
LB: Low Band Port

HB: High Band Port

ANT: Common Port



2. Construction, Dimensions & Marking



(in mm)

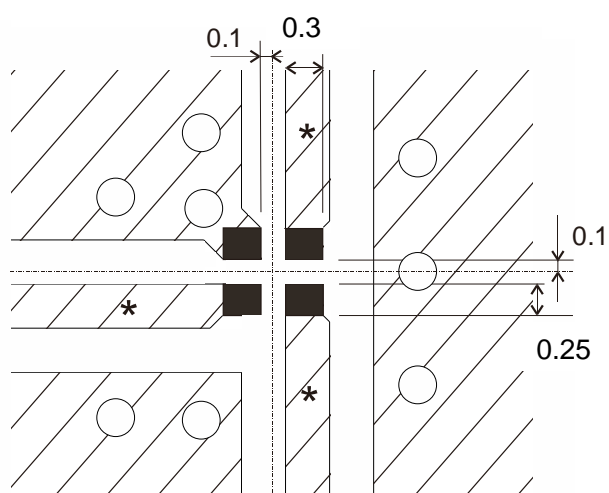
Mark	Meaning
A	Directional Input Mark

Mark	Dimension	Mark	Dimension
L	1.000+0.050/-0.075	b	0.10±0.10
W	0.50±0.05	c	0.12±0.07
T	0.40 max	e	0.20±0.10
a	0.30±0.10		

TERMINAL CONFIGURATION

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

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.

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