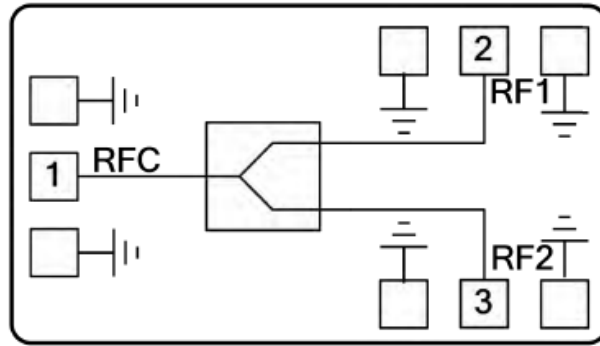




### Features

- Frequency: 15-40GHz
- Insertion Loss: 0.9dB Typical
- Isolation: 15dB Typical
- Input/Output: 50Ω
- Chip Size: 1.575 x 1.154 x 0.1mm

### Functional Block Diagram



### Typical Applications

- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

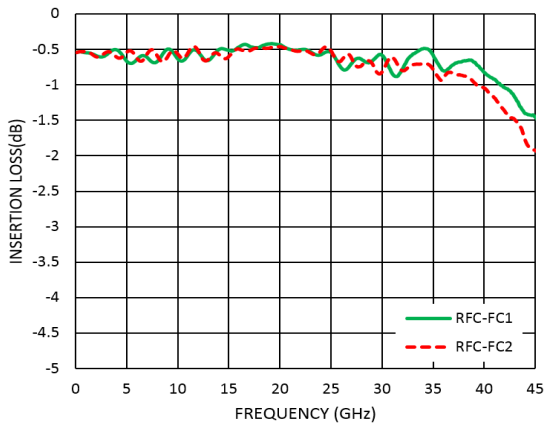
### Electrical Specifications

TA = +25°C ,Pin=0dBm

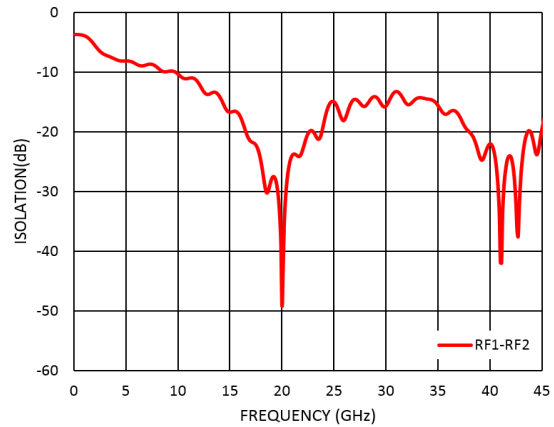
Parameters	Min.	Typ.	Max.	Units
Frequency	15		40	GHz
Nominal Splitter Loss		3		dB
Insertion Loss		0.9	1.2	dB
Insertion Loss Flatness		±0.25		dB
Isolation		15		dB
Input Return Loss		-14		dB
Output Return Loss		-18		dB



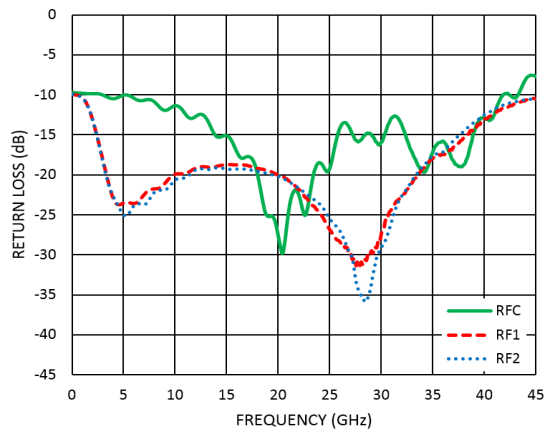
### Insertion Loss vs. Frequency



### Isolation vs. Frequency

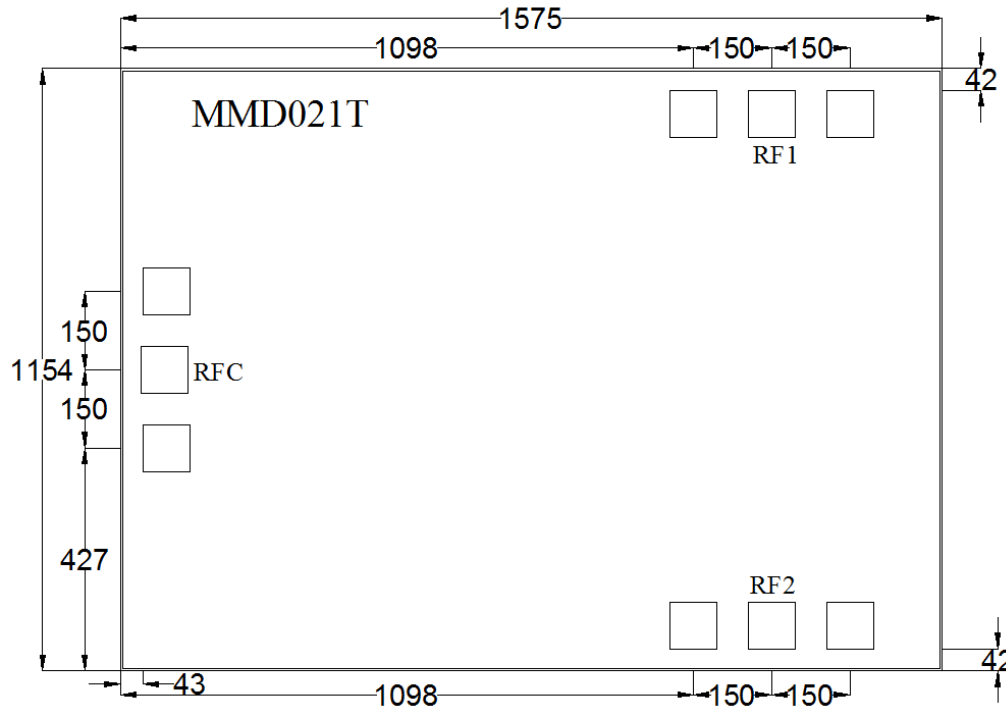


### Return Loss vs. Frequency





### Outline Drawing: All Dimensions in $\mu\text{m}$



### Absolute Maximum Ratings

RF Input Power	+40dBm
Operating Temperature	-55°C to +85 °C
Storage Temperature	-65°C to +150 °C

No	Symbol	Description
1	RFC	RF Common Port
2,3	RF1&RF2	RF Branch Ports

#### Notes:

1. Die thickness: 100 $\mu\text{m}$
2. RF IN/OUT bond pad is 100\*100 $\mu\text{m}^2$
3. Bond pad metalization: Gold
4. Backside metalization: Gold
5. Backside of the die (GND)

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