

Features

- Frequency: 18-40GHz
- Insertion Loss: 0.5dB Typical
- Isolation: 22dB Typical
- Input/Output: 50Ω
- Chip Size: 2.17 x 3.161 x 0.1mm

Typical Applications

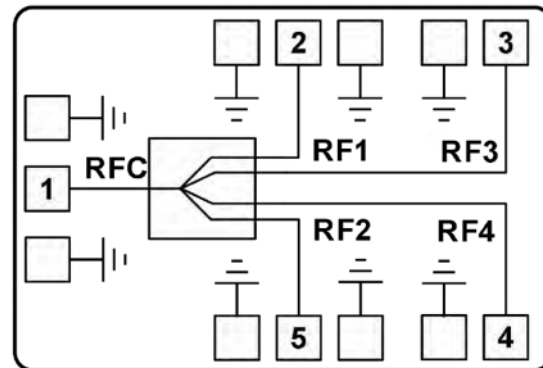
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Electrical Specifications

TA = +25°C ,Pin=0dBm

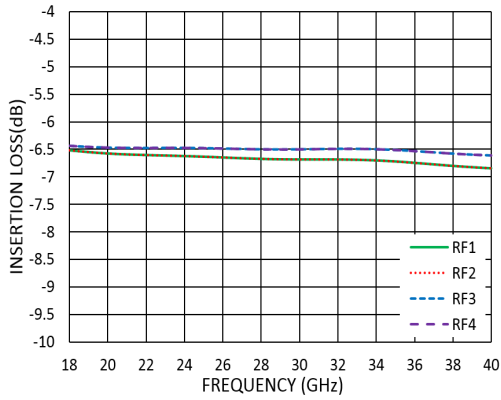
Parameters	Min.	Typ.	Max.	Units
Frequency	18		40	GHz
Nominal Splitter Loss		6		dB
Insertion Loss		0.5	0.9	dB
Insertion Loss Flatness		±0.2		dB
Isolation	16	22		dB
Input Return Loss	15	18		dB
Output Return Loss	18	20		dB

Functional Block Diagram

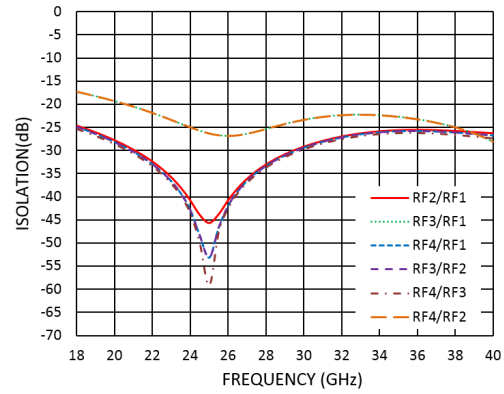




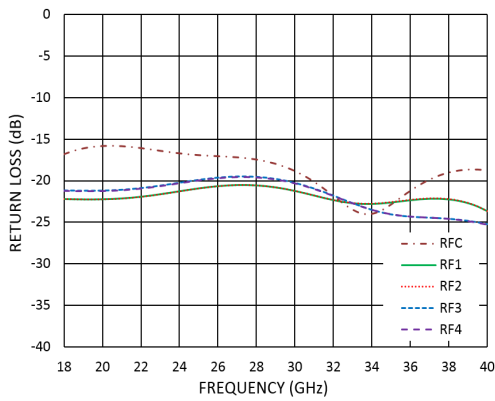
Insertion Loss vs. Frequency



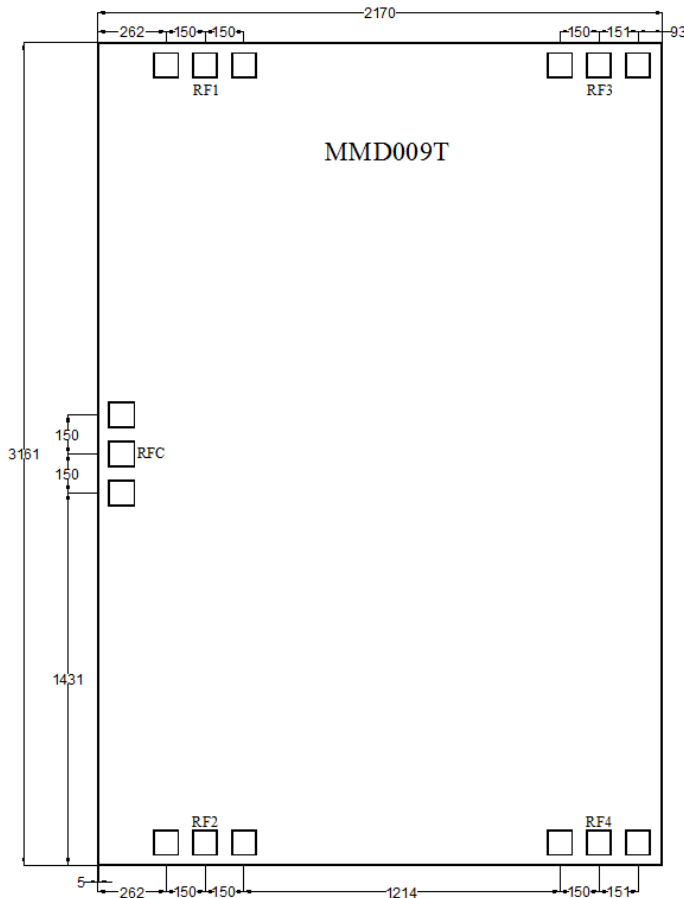
Isolation vs. Frequency



Return Loss vs. Frequency



Outline Drawing:

All Dimensions in μm

Absolute Maximum Ratings

RF Input Power	+31dBm
Operating Temperature	-55°C to +85 °C
Storage Temperature	-65°C to +150 °C

No	Symbol	Description
1	RFC	RF Common Port
2,3,4,5	RF1&RF2&RF3&RF4	RF Branch Ports

Notes:

1. Die thickness: 100 μm
2. RF IN/OUT bond pad is 100*100 μm^2
3. Bond pad metalization: Gold
4. Backside metalization: Gold
5. Backside of the die (GND)

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