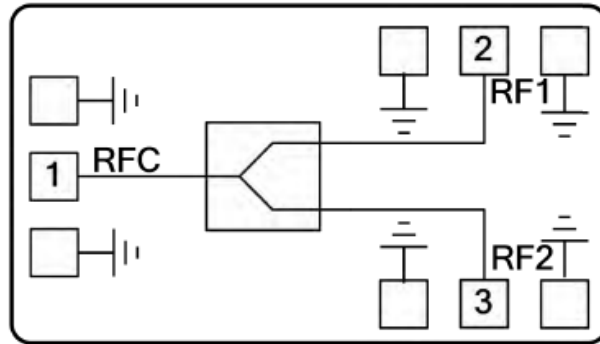




Features

- Frequency: 1-12GHz
- Insertion Loss: 1.2dB Typical
- Isolation: 20dB Typical
- Input/Output: 50Ω
- Chip Size: 3.085 x 2.422 x 0.1mm

Functional Block Diagram



Typical Applications

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

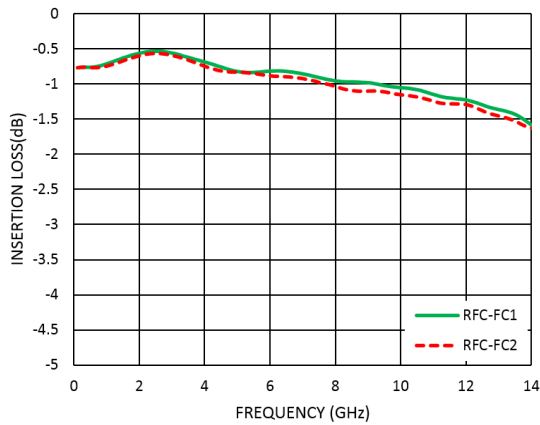
Electrical Specifications

TA = +25°C ,Pin=0dBm

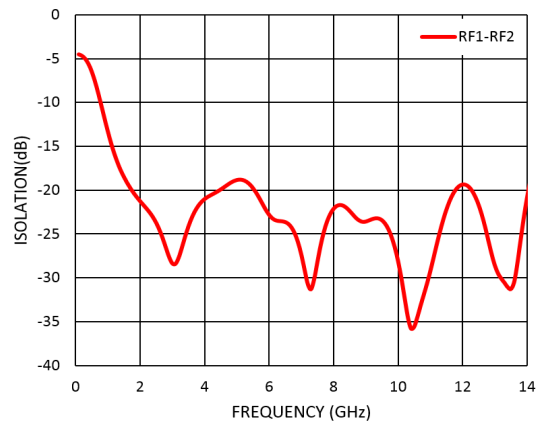
Parameters	Min.	Typ.	Max.	Units
Frequency	1		12	GHz
Nominal Splitter Loss		3		dB
Insertion Loss		1.2	1.4	dB
Insertion Loss Flatness		±0.35		dB
Isolation	14	20		dB
Input Return Loss		-18		dB
Output Return Loss		-20		dB



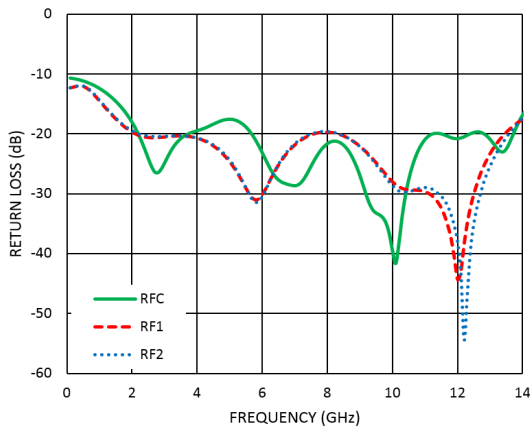
Insertion Loss vs. Frequency



Isolation vs. Frequency

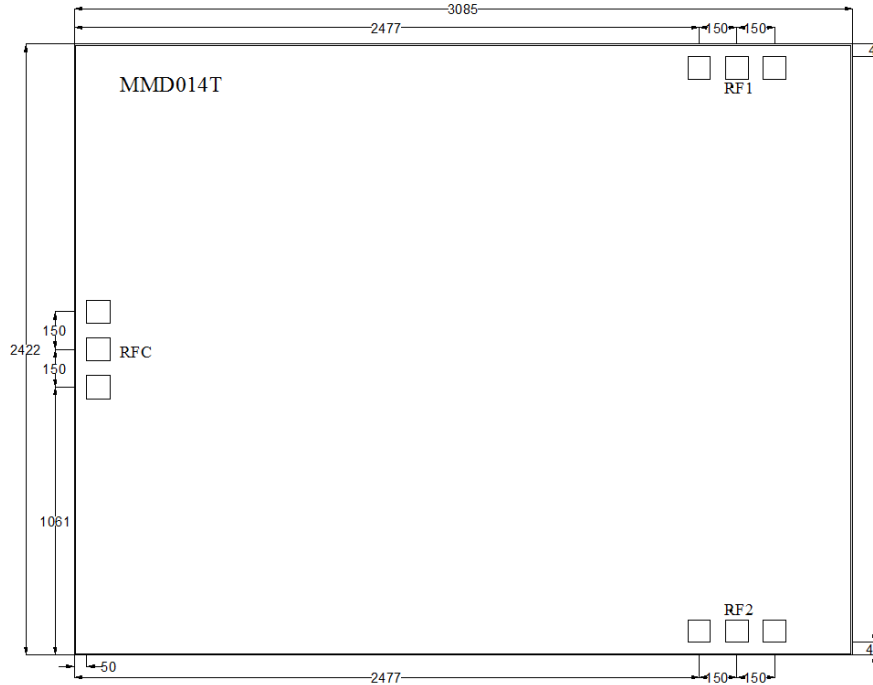


Return Loss vs. Frequency





Outline Drawing: All Dimensions in μm



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 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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