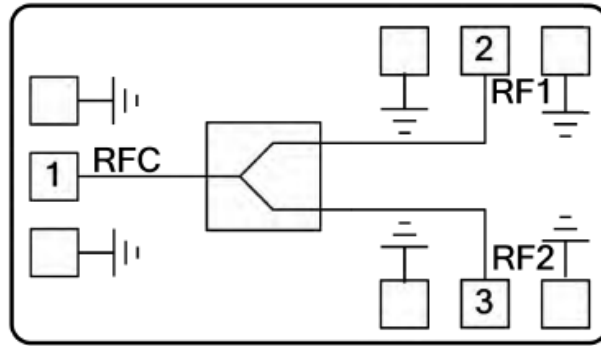




Features

- Frequency: 6-18GHz
- Insertion Loss: 0.6dB Typical
- Isolation: 22dB Typical
- Input/Output: 50Ω
- Chip Size: 0.965 x 0.78 x 0.1mm

Functional Block Diagram



Typical Applications

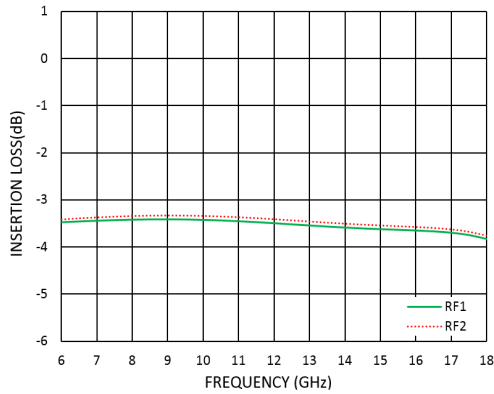
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Electrical Specifications

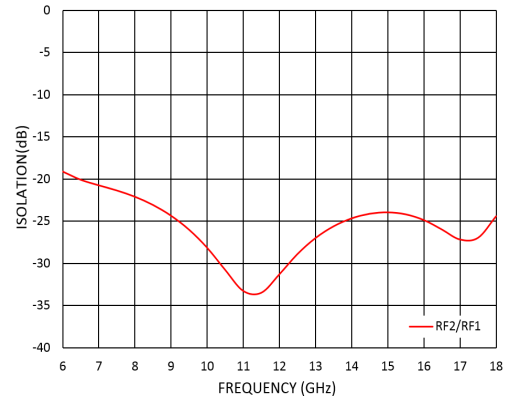
TA = +25°C ,Pin=0dBm

Parameters	Min.	Typ.	Max.	Units
Frequency	6		18	GHz
Nominal Splitter Loss		3		dB
Insertion Loss		0.6	0.8	dB
Insertion Loss Flatness		±0.2		dB
Isolation	18	22		dB
Input Return Loss	14	17		dB
Output Return Loss	17	20		dB

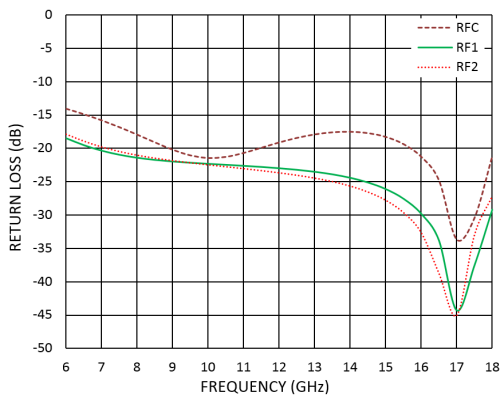
Insertion Loss vs. Frequency

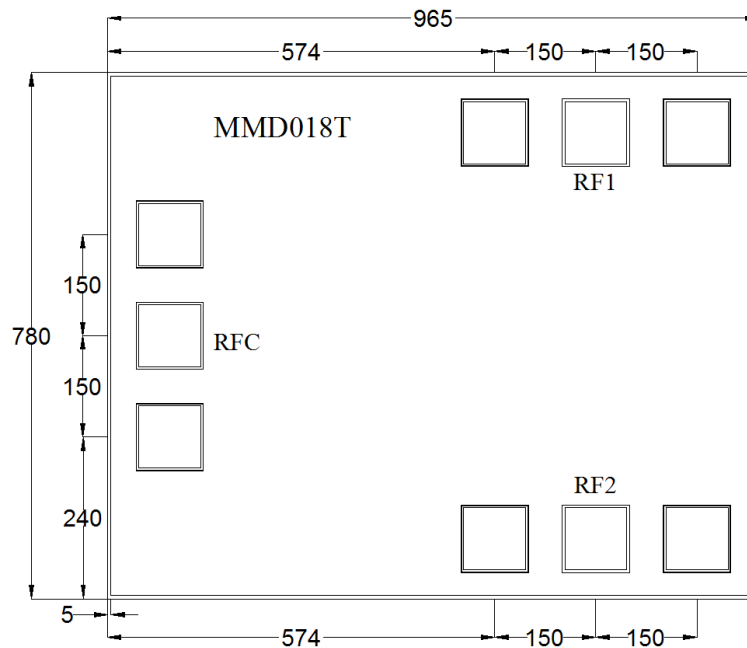


Isolation vs. Frequency



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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