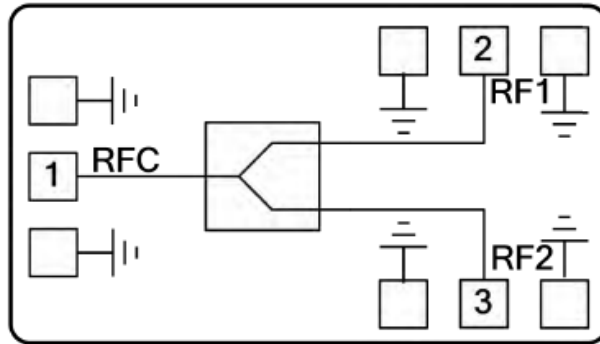




### Features

- Frequency: 1-18GHz
- Insertion Loss: 1.5 dB Typical
- Isolation: 22dB Typical
- Input/Output: 50Ω
- Chip Size: 3.105 x 2.56 x 0.1mm

### Functional Block Diagram



### Typical Applications

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

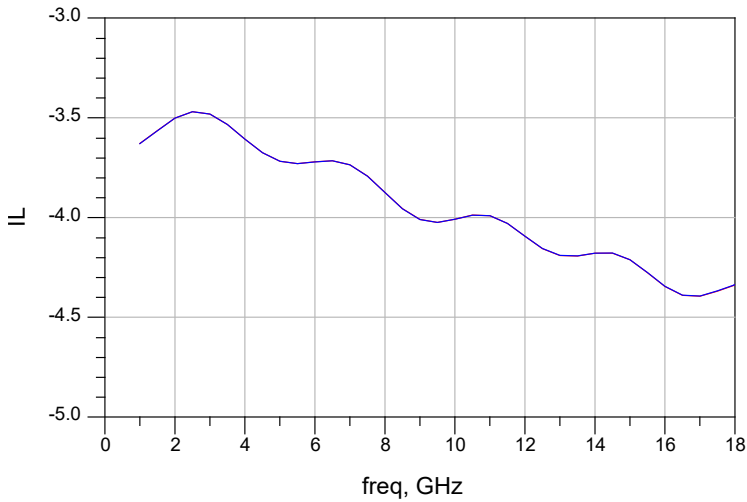
### Electrical Specifications

TA = +25°C ,Pin=0dBm

Parameters	Min.	Typ.	Max.	Units
Frequency	1		18	GHz
Nominal Splitter Loss		3		dB
Insertion Loss		1	1.5	dB
Flatness		±0.4		dB
Isolation		22		dB
Input Return Loss		18		dB
Output Return Loss		25		dB



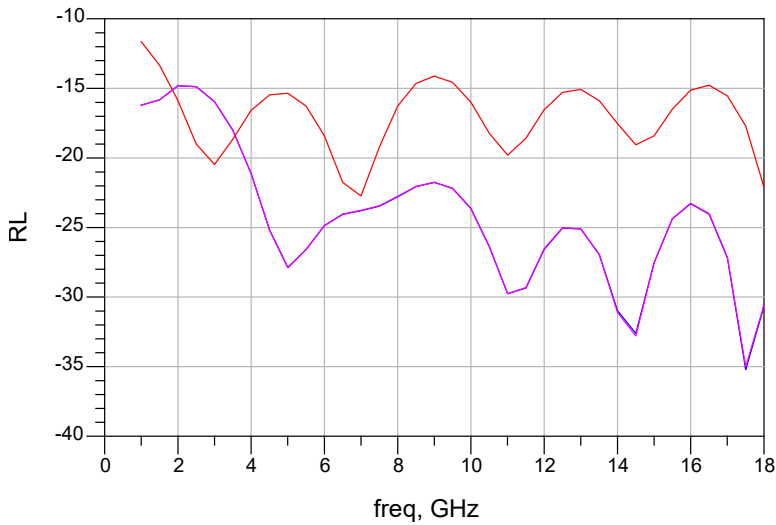
#### Insertion Loss vs. Frequency



#### Isolation vs. Frequency

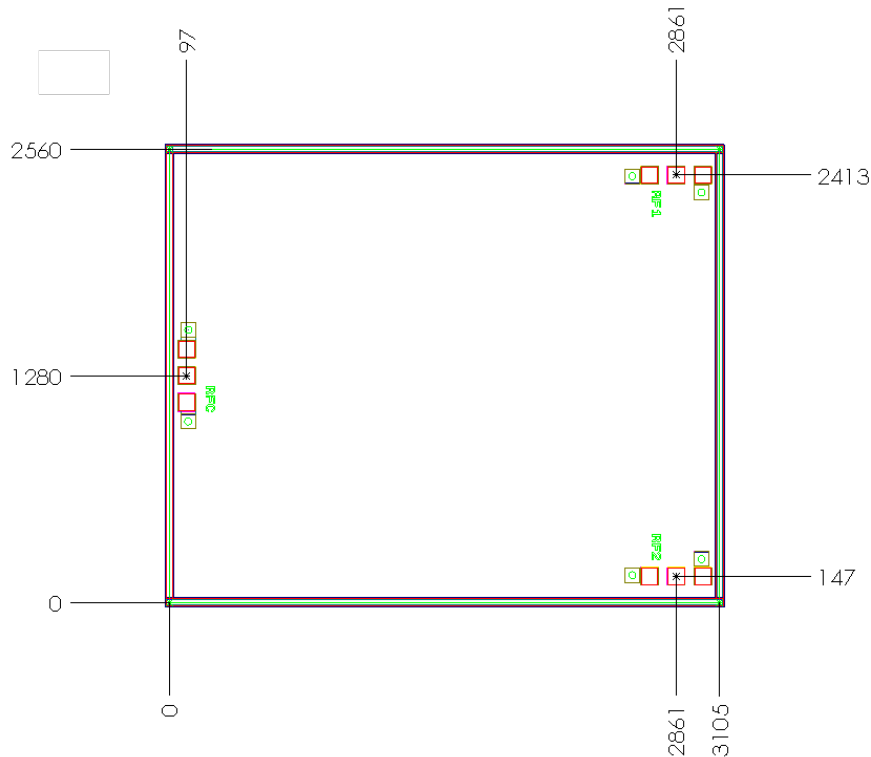


#### Return Loss vs. Frequency





### 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 92 x 92  $\mu\text{m}^2$
3. Bond pad metalization: Gold
4. Backside metalization: Gold
5. Backside of the die (GND)

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