



Features

- Frequency: 6-18GHz
- Insertion Loss: 1.0dB
- Input/Output: 50Ω
- Chip Size: 1.824 x 1.047 x 0.1mm

Typical Applications

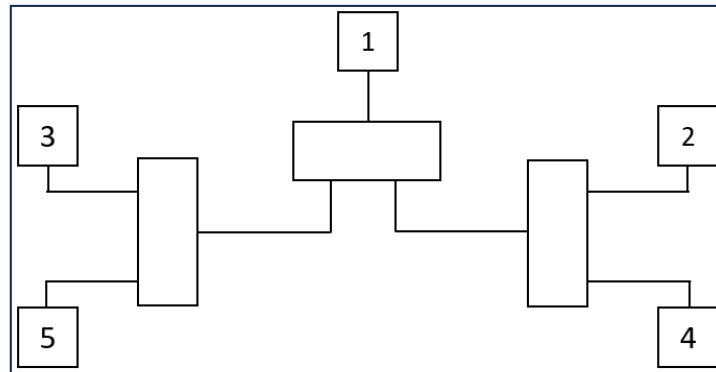
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Electrical Specifications

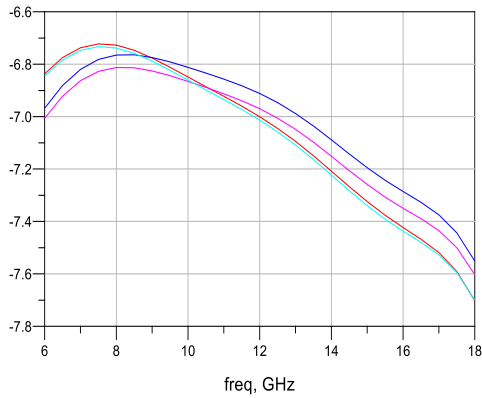
TA = +25°C

Parameters	Min.	Typ.	Max.	Units
Frequency	6		18	GHz
Insertion Loss		1.0		dB
Flatness		±0.4		dB
Isolation	17	22		dB
Input Return Loss	12	15		dB
Output Return Loss	18	21		dB

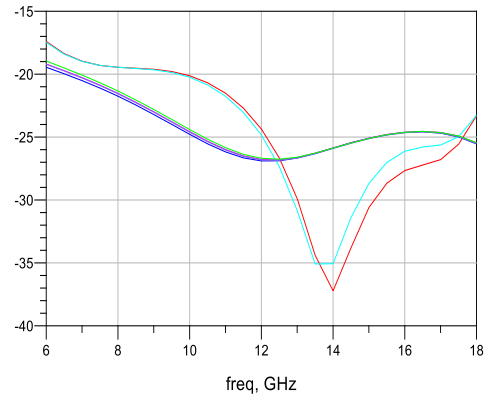
Functional Block Diagram



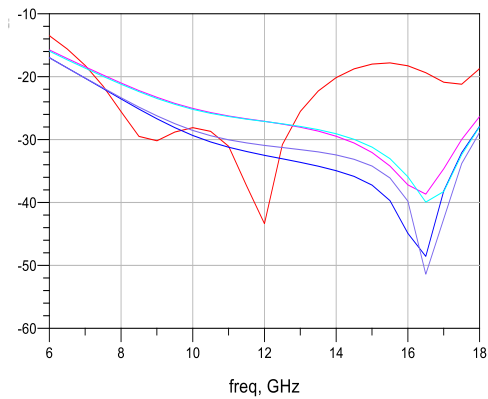
Insertion Loss vs. Frequency



Isolation vs. Frequency

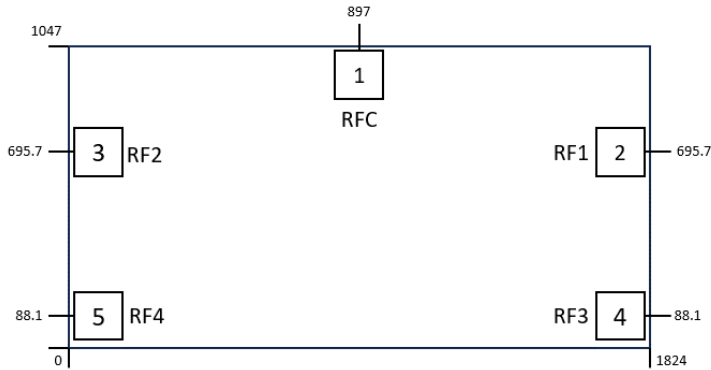


Return Loss vs. Frequency

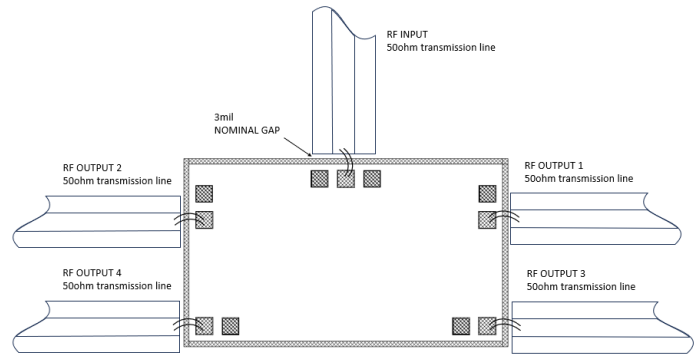




Outline Drawing: All Dimensions in μm



Assembly Drawing



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	RF IN	RF Input Port
2,3,4,5	RF OUT	RF Output Port

Notes:

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

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