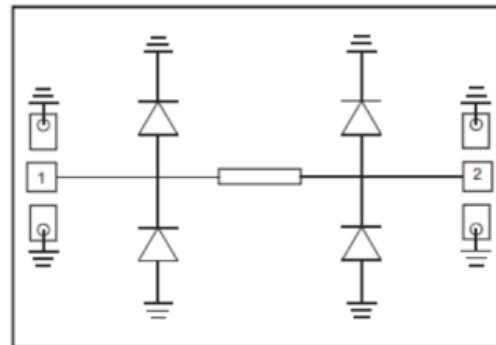


**Features**

- Frequency:4-8GHz
- Insertion Loss: 0.5dB (typ.)
- Limit Power:16dBm
- Tolerance Power:42dBm(CW)
- Input/Output: 50Ω
- Die Size: 1.92x1.02x 0.1 mm

**Typical Applications**

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

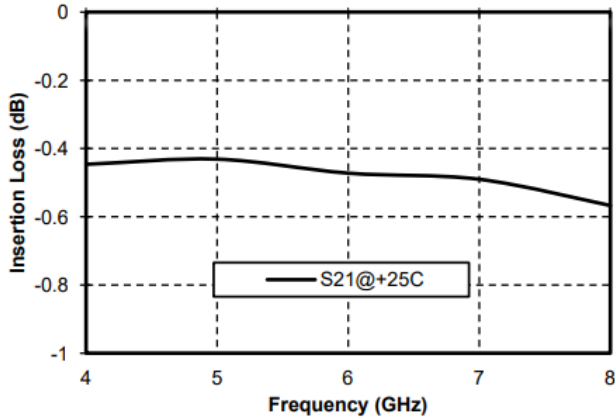
**Functional Block Diagram**

**Electrical Specifications**

TA = +25°C

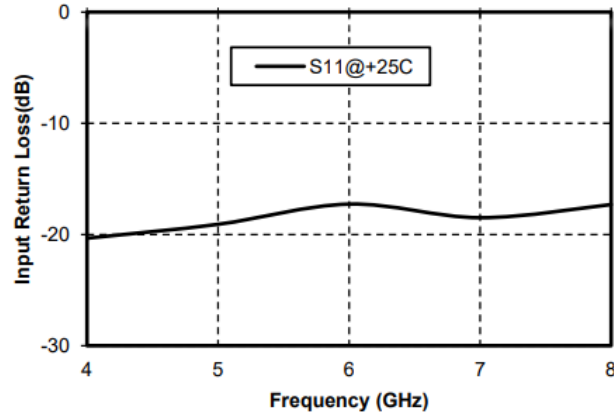
Parameters	Min.	Typ.	Max.	Units
Frequency	4-8			GHz
Insertion Loss	-	0.5	0.6	dB
Input Return Loss	17	18	-	dB
Output Return Loss	18	20	-	dB
Limit Power	-	17	-	dBm
Tolerance Power		42		dBm



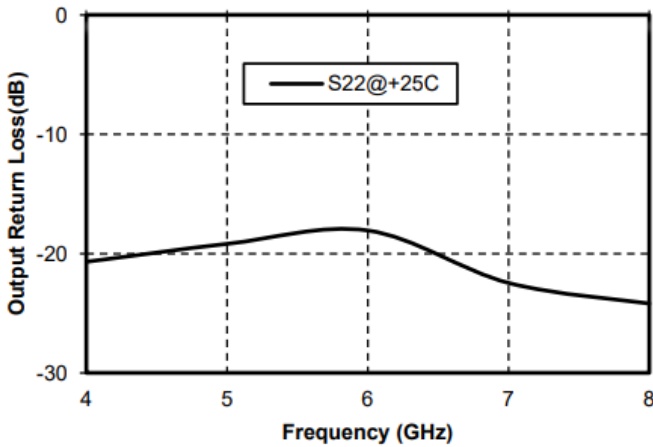
### Insertion Loss Vs. Frequency



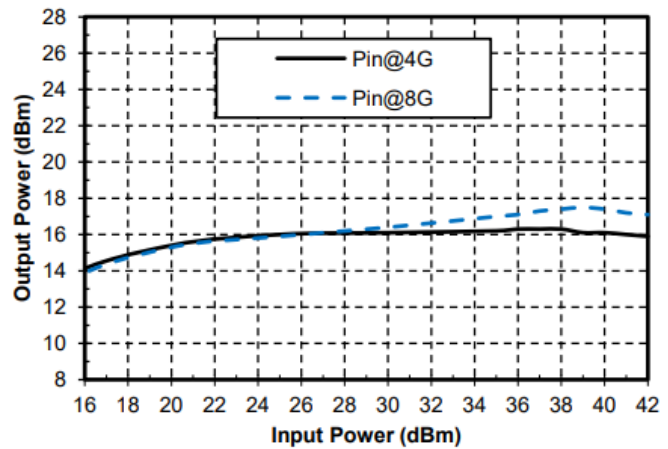
### Input Return Loss Vs. Frequency



### Output Return Loss Vs. Frequency



### Limit Power @4G & @8G





### Outline Drawing:

All Dimensions in um, tolerance range  $\pm 50\mu\text{m}$



### Pad Description

PAD	Function	Description
1	RF IN	RF signal input, no DC blocking capacitor integrated at the chip input, external DC-blocking capacitor required
2	RF OUTPUT	RF signal output, A DC blocking capacitor has been integrated at the output of the chip
Die Bottom	GND	Die bottom must be connected to RF/DC ground.



### Assembly Drawing



#### Notes:

1. Die thickness: 100um
2. Typical bond pad is 100\*100  $\mu\text{m}^2$
3. Bond pad metalization: Gold
4. Backside metalization: Gold
5. Backside of the die (GND)
6. No connection required for unlabeled bond pads

#### Maximum Ratings:

1. RF input power: +42dBm
2. Storage temperature: -65°C to +150°C
3. Operating temperature: -55°C to 125°C