

Features

- Frequency:DC-20GHz
- Insertion Loss: 0.5dB (typ.)
- Limit Power:16dBm
- Tolerance Power:37dBm(CW)
- Input/Output: 50Ω
- Die Size: 1.47x1.41x 0.1 mm


Typical Applications

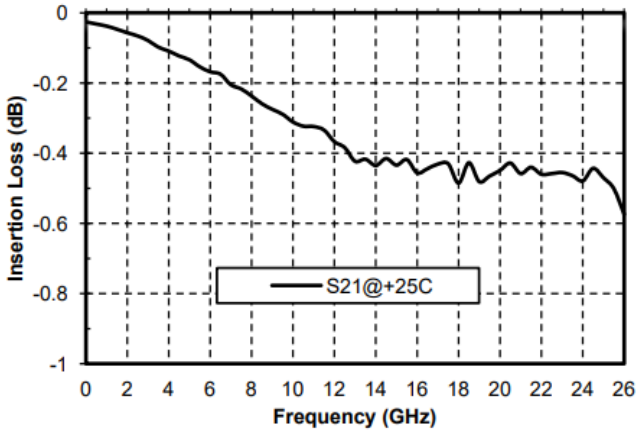
- Test Instrumentation
- Microwave Radio & VSAT
- Military & Space
- Telecom Infrastructure
- Fiber Optics

Electrical Specifications
TA = +25°C

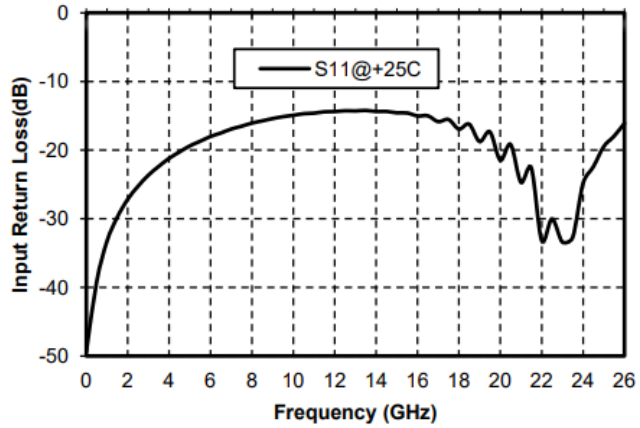
Parameters	Min.	Typ.	Max.	Units
Frequency	DC-20			GHz
Insertion Loss	-	-	0.5	dB
Input Return Loss	14	20	-	dB
Output Return Loss	14	20	-	dB
Channel Isolation		60		dB
Limit Power	-	16	-	dBm
Tolerance Power		37		dBm



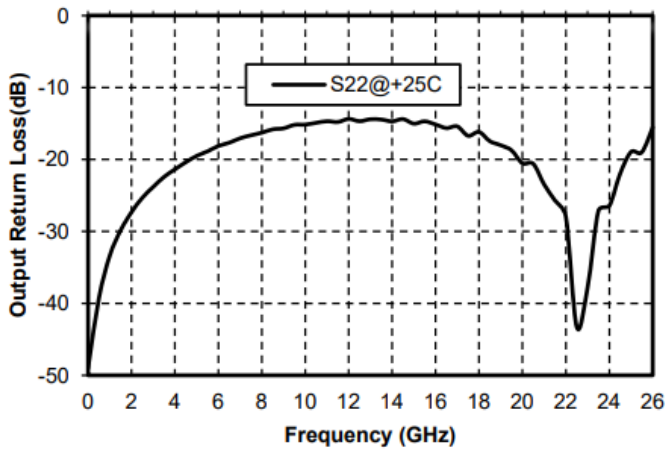
Insertion Loss Vs. Frequency



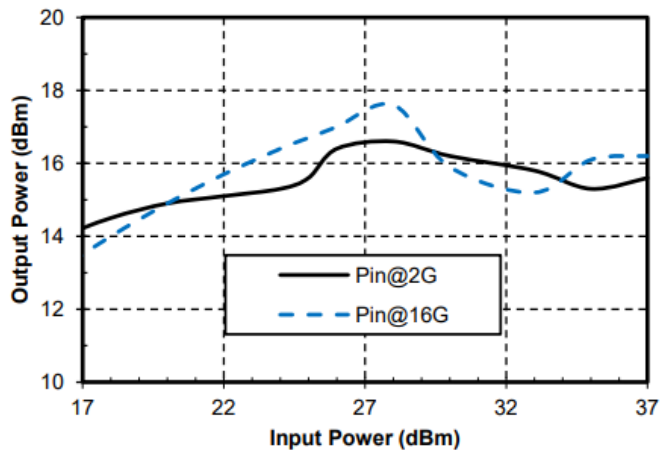
Input Return Loss Vs. Frequency



Output Return Loss Vs. Frequency



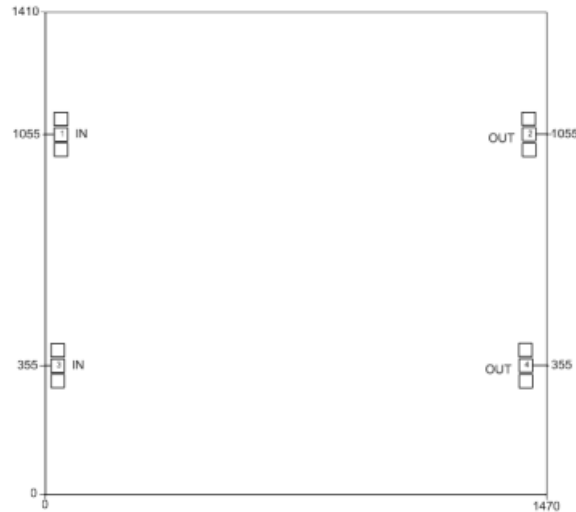
Limit Power @2G & 16G





Outline Drawing:

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

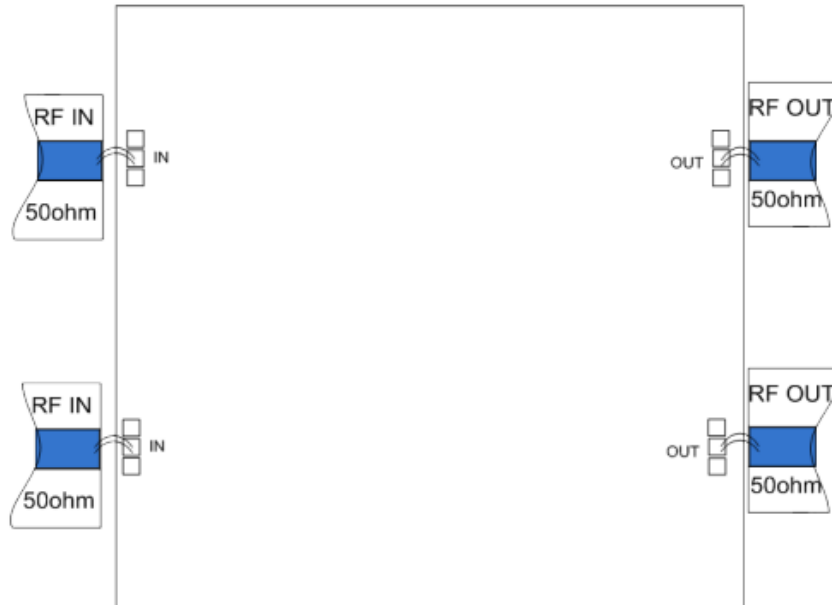


Pad Description

PAD	Function	Description
1,3	RF COMM	RF signal input, external DC-blocking capacitor required.
2,4	RF OUTPUT	RF signal output, external DC-blocking capacitor required.
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 μm^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: +37dBm
2. Storage temperature: -65°C to +150°C
3. Operating temperature: -55°C to 125°C