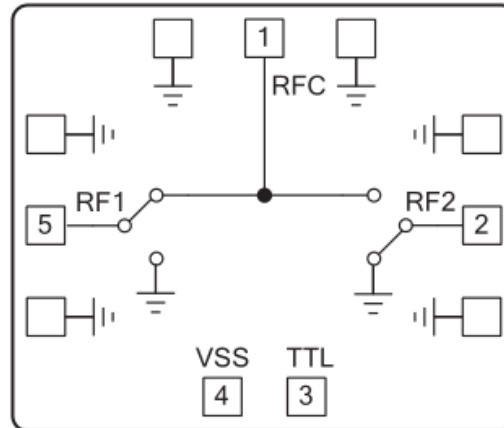


**Features**

- Isolation: >38dB @ 4GHz
- Insertion Loss: 0.6dB @ 4GHz
- Reflective design
- Die Size: 0.7x 0.9x 0.1 mm

**Typical Applications**

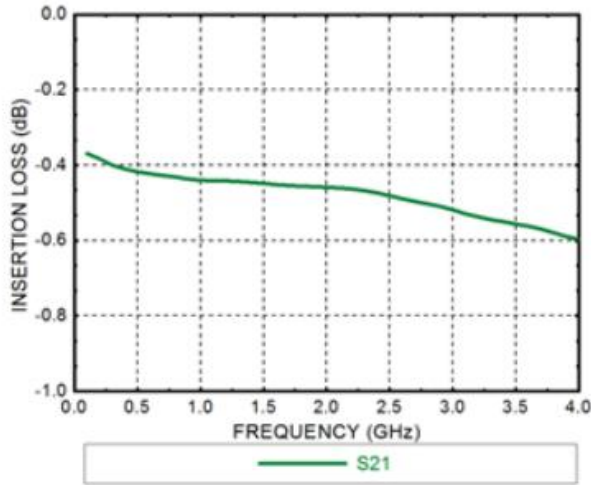
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request

**Functional Block Diagram**

**Electrical Specifications**
**TA = +25°C, Vctl = 0/+5V**

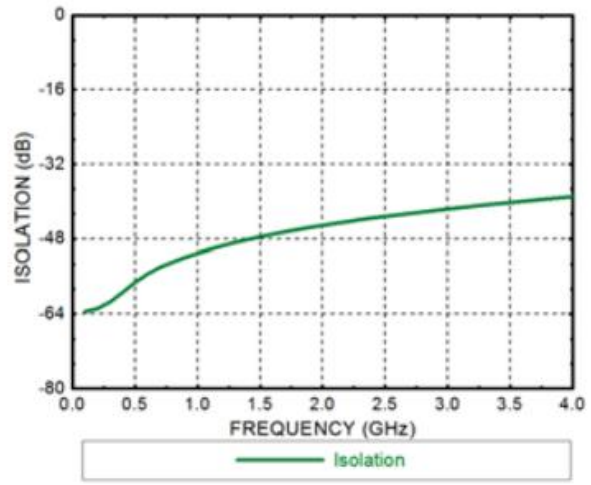
Parameters	Min.	Typ.	Max.	Units
Frequency	DC - 4			GHz
Insertion Loss		0.5		dB
Isolation		45		dB
Return Loss (ON State)		20		dB
Input 1dB Compression (P1dB)		25		dBm
Switching Speed		15		ns



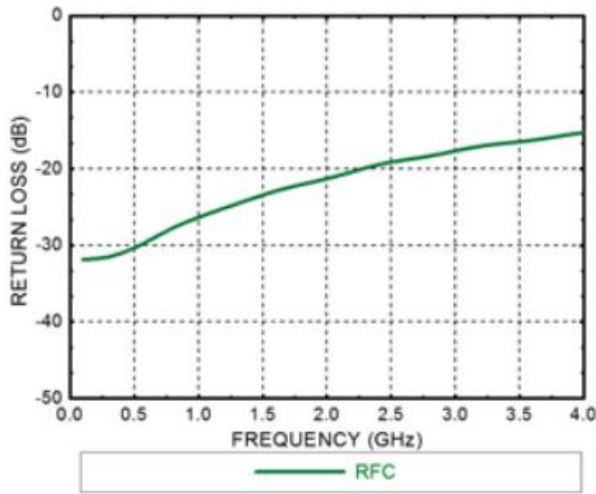
### Insertion Loss



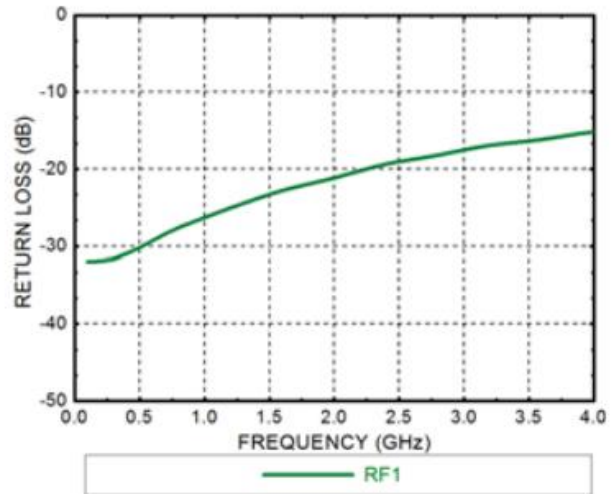
### Isolation



### RFC Return Loss(ON State)



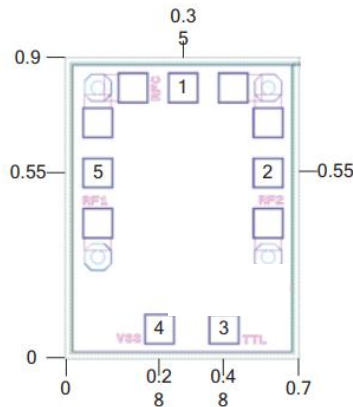
### RF1 Return Loss(ON State)





### Outline Drawing:

All Dimensions in mm

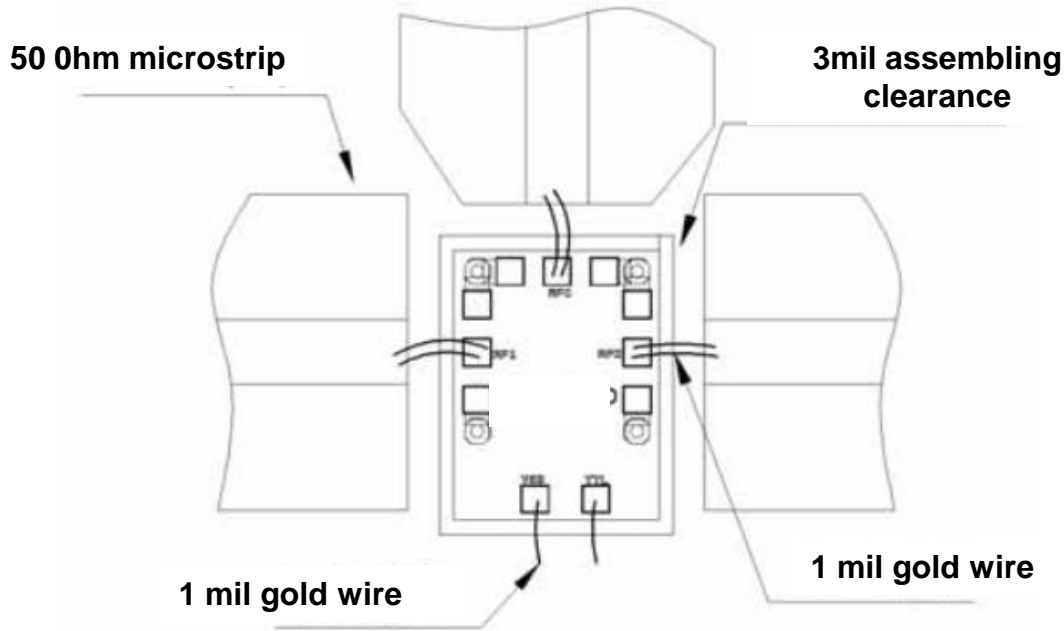


### Pad Description

PAD	Function	Description
1	RFC	The pad is DC coupled to 50 ohms . If the RF level is not 0V, then the blocking capacitor is required externally.
2, 5	RF1, RF2	The pad is DC coupled to 50 ohms . If the RF level is not 0V, then the blocking capacitor is required externally.
3	TTL	The TTL terminates 0V control voltage ,The RF1 is "ON" state; RF2 is "OFF" state; The TTL terminates +5V control voltage .The RF1 is "OFF" state; RF2 is "ON" state
4	VSS	The pad is the digital circuit power supply, and connects to -5v power supply voltage.
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: +27dBm
2. Storage temperature: -65°C to +175°C
3. Operating temperature: -55°C to +85°C