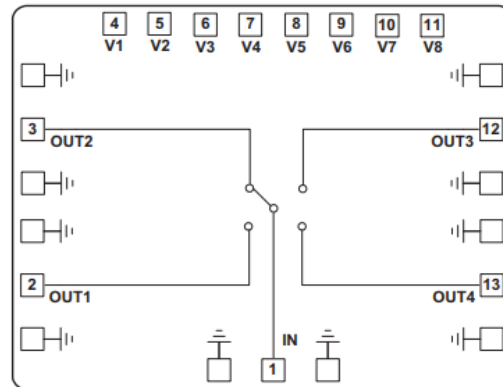


Features

- Isolation: >40dB @ 20GHz
- Insertion Loss: 2.8dB @ 20GHz
- Absorptive design:
- Die Size: 2x 1.5 x 0.1 mm

Typical Applications

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

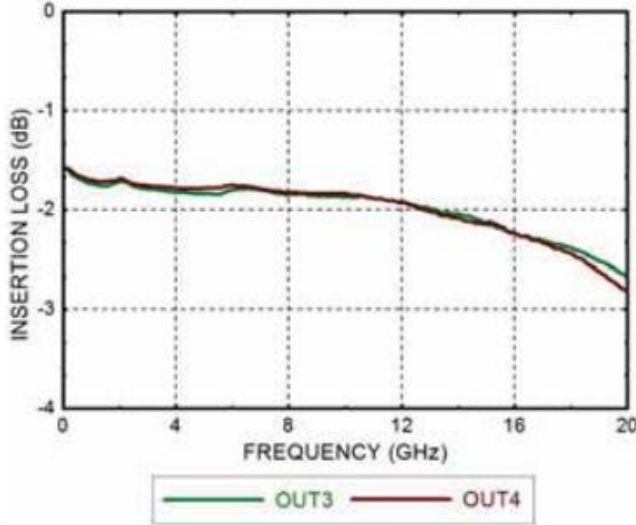
Functional Block Diagram

Electrical Specifications

TA = +25°C, Vctl = 0/-5V

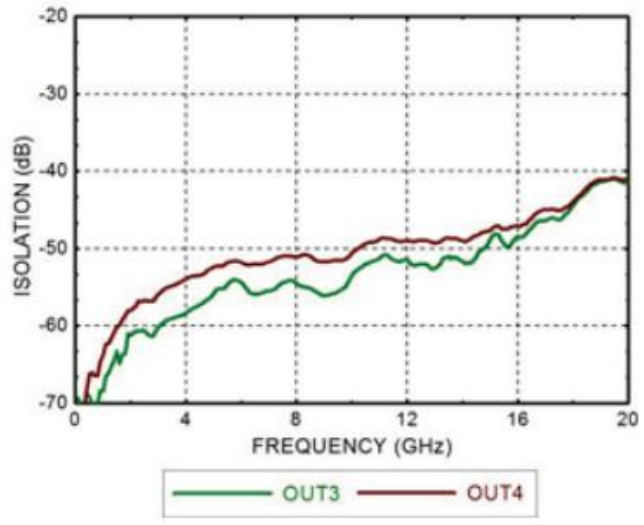
Parameters	Min.	Typ.	Max.	Units
Frequency	DC - 20			GHz
Insertion Loss		2.8		dB
Isolation		45		dB
Return Loss (ON State)		16		dB
Return Loss (OFF State)		15		dB
Input 1dB Compression (P1dB)		25		dBm
Switching Speed		15		ns



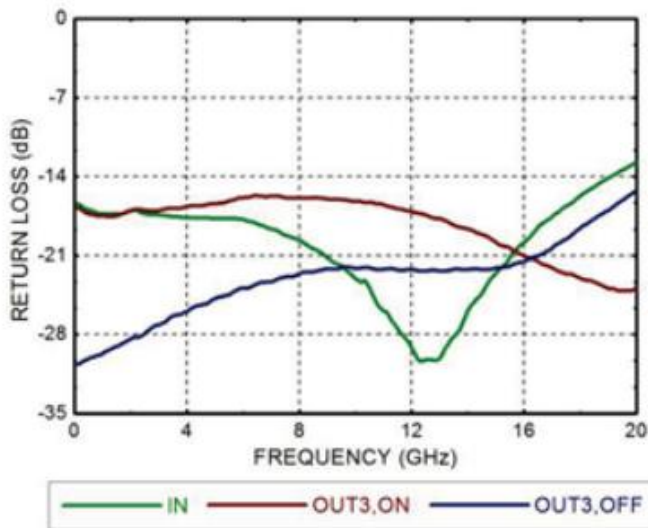
Insertion Loss



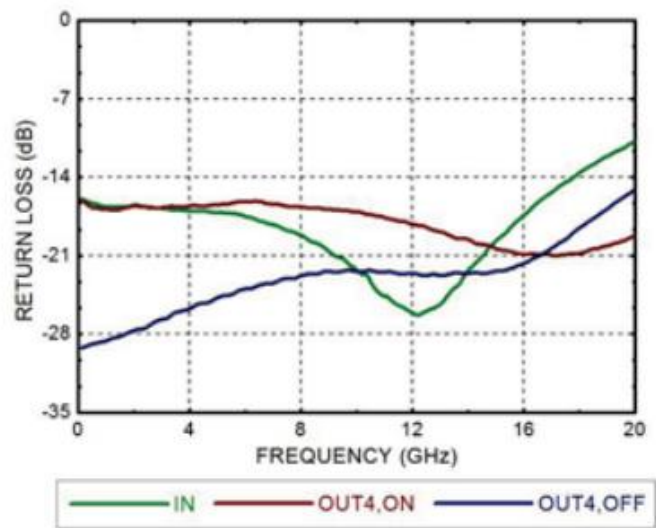
Isolation



OUT3 Return Loss



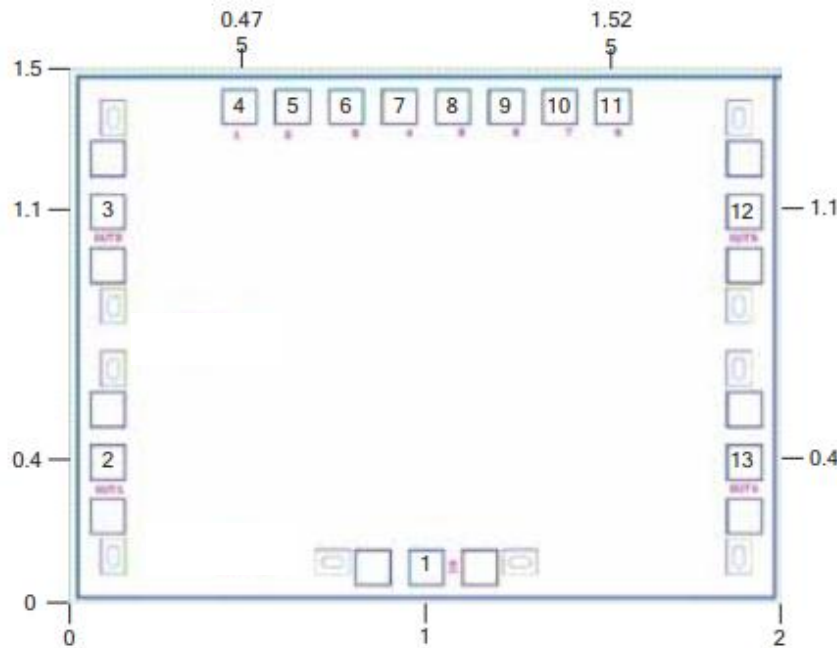
OUT4 Return Loss





Outline Drawing:

All Dimensions in mm

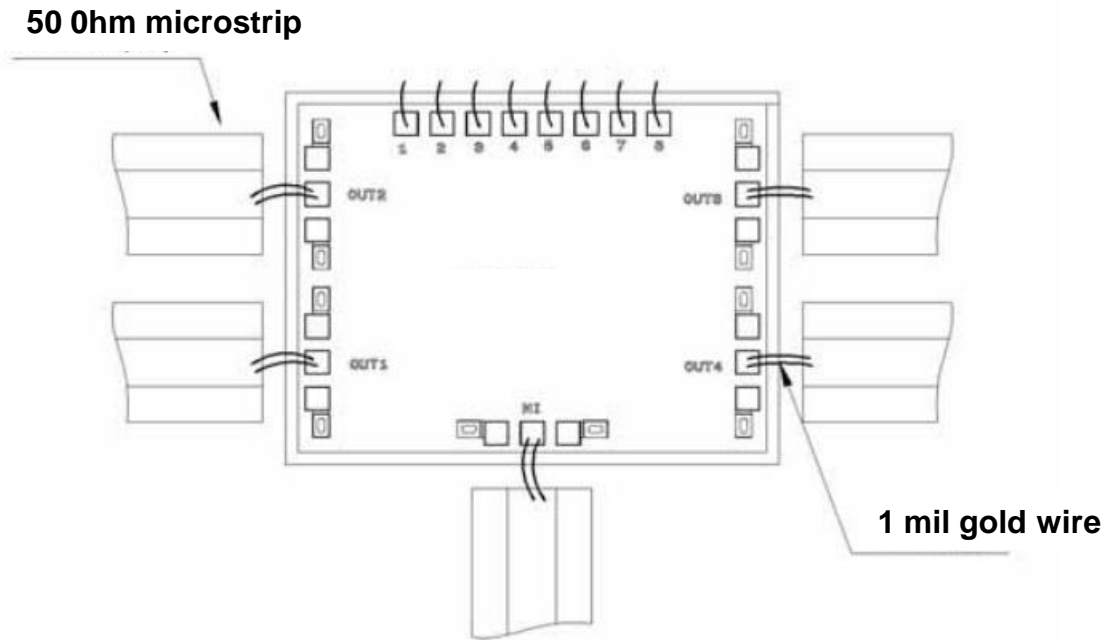


Pad Description

PAD	Function	Description
1	IN	The pad is DC coupled to 50 ohms . If the RF level is not 0V, then the blocking capacitor is required externally.
2,3,12,13	OUT1, OUT2 OUT3, OUT4	The pad is DC coupled to 50 ohms . If the RF level is not 0V, then the blocking capacitor is required externally.
4-11	V1-V8	When V1/V4/V6/V8=-5V,V2/V3/V5/V7=0V,The OUT1 is "ON" state; When V2/V3/V6/V8=-5V,V1/V4/V5/V7=0V, The OUT2 is "ON" state; When V2/V4/V5/V8=-5V,V1/V3/V6/V7=0V, The OUT3 is "ON" state; When V2/V4/V6/V7=-5V,V1/V3/V5/V8=0V, The OUT4 is "ON" state
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: +27dBm
2. Storage temperature: -65°C to +175°C
3. Operating temperature: -55°C to +85°C