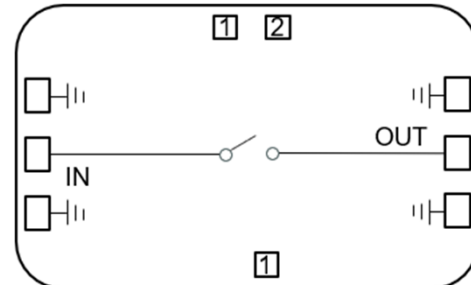


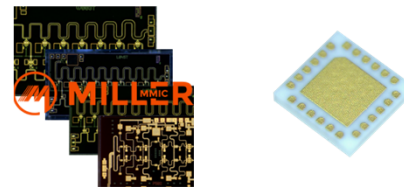
**Features**

- SPST Absorptive design
- Frequency:DC-20GHz
- Isolation: 55dB
- Insertion Loss: 1.5dB
- Return Loss (ON):20dB
- Control Voltage:0/-5V
- Switching Speed:15ns
- Die Size: 1.54x0.69x 0.1 mm
- QFN package available 4x4 mm


**Typical Applications**

- Voltage control no current
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request

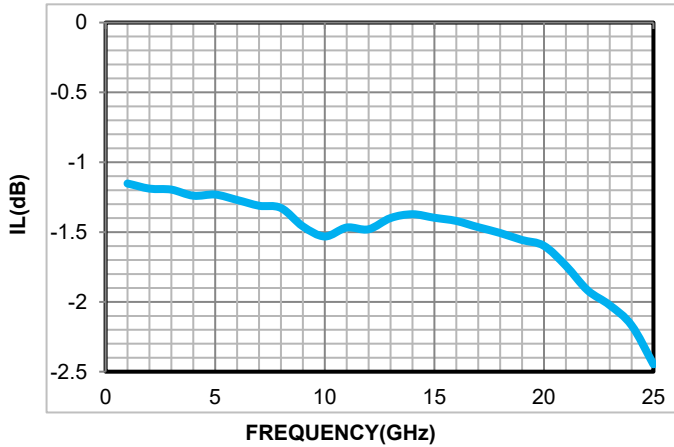
- QFN package available 4x4 mm


**Electrical Specifications**

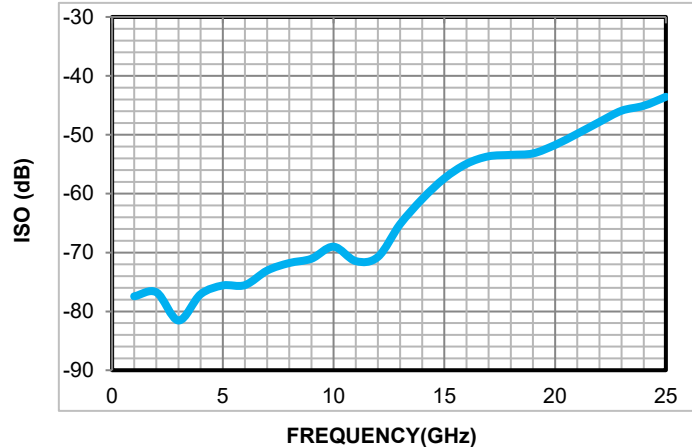
TA = +25°C, VCTL=0/-5V

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
<b>Frequency</b>	<b>DC - 6</b>		<b>6 - 20</b>				<b>GHz</b>
<b>Insertion Loss</b>		<b>1.25</b>	<b>1.5</b>		<b>1.7</b>	<b>2.0</b>	<b>dB</b>
<b>Isolation</b>	<b>60</b>	<b>65</b>		<b>45</b>	<b>50</b>		<b>dB</b>
<b>Return Loss (ON State)</b>	<b>18</b>	<b>20</b>		<b>18</b>	<b>22</b>		<b>dB</b>
<b>Return Loss (OFF State)</b>	<b>14</b>	<b>15</b>		<b>12</b>	<b>14</b>		<b>dB</b>
<b>Input P-1</b>		<b>18</b>			<b>18</b>		<b>dBm</b>
<b>RF Input power</b>			<b>30</b>			<b>30</b>	<b>dBm</b>
<b>IIP3</b>		<b>28</b>			<b>28</b>		<b>dBm</b>
<b>Switching Speed</b>	<b>15</b>						<b>ns</b>

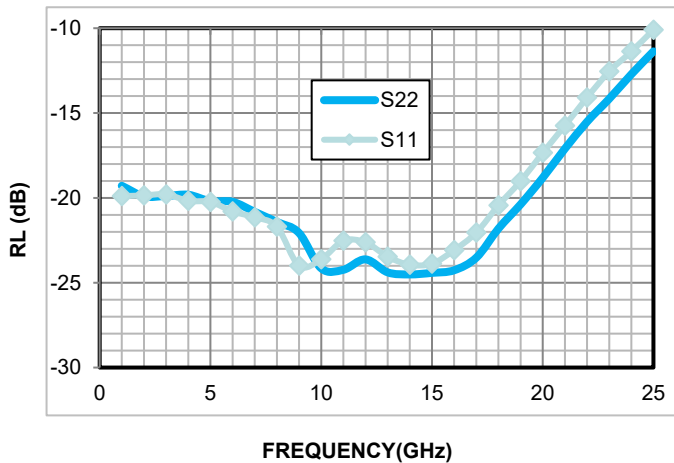
Insertion Loss vs. Frequency



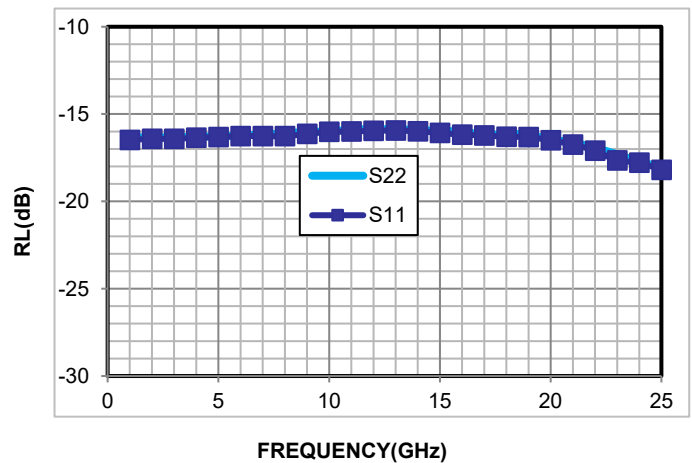
Isolation vs. Frequency



RL-On vs. Frequency

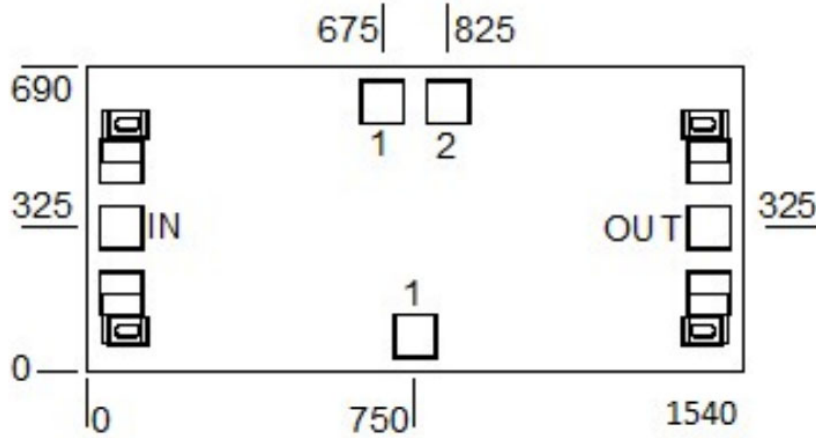


RL-Off vs. Frequency





**Outline Drawing:**  
All Dimensions in mm

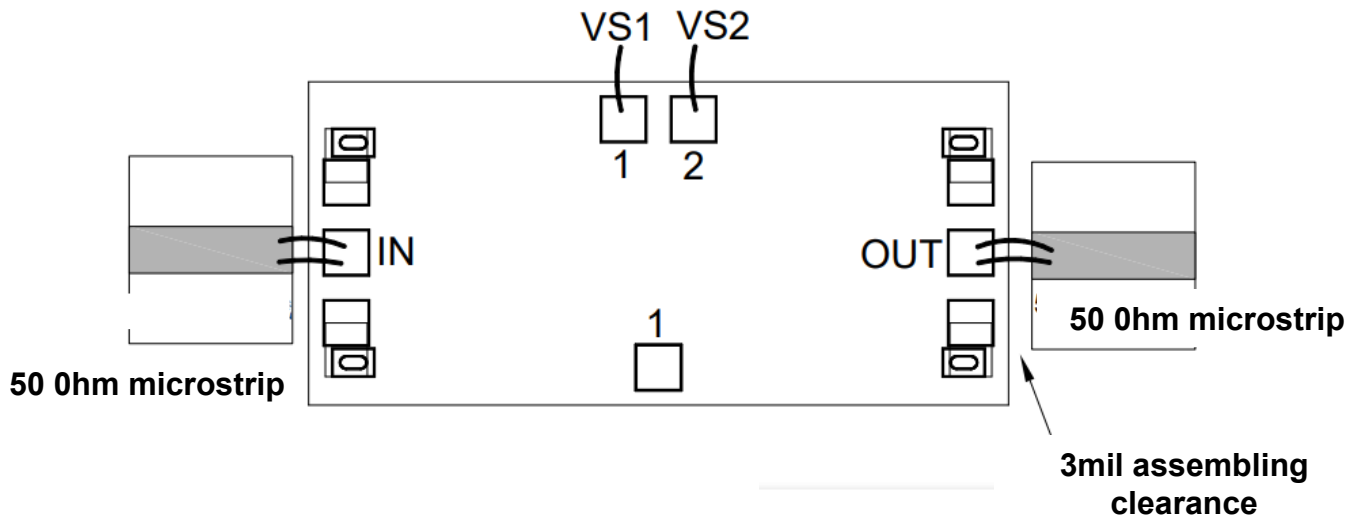


**True Table**

Control Voltage		State
1	2	IN-OUT
0	-5	OFF
-5	0	ON



### 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: +30dBm
2. Control Voltage: -8~+1V
3. Storage temperature: -65°C to +150°C
3. Operating temperature: -55°C to 125°C