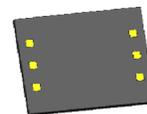


### Fixed Phaser Shifter

- ◆ 4GHz to 14GHz
- ◆ Input Power:10W
- ◆ Insertion Loss: 0.2dB
- ◆ Size:1.7mm×1.3mm×0.1mm



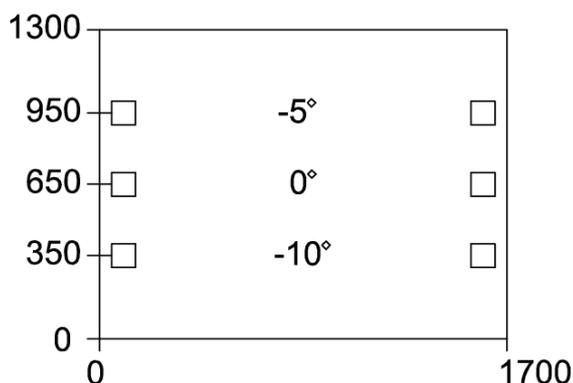
### Features

- Adopting advance GaAs technology
- Low VSWR
- Low Insertion Loss
- Die Package

### Specification

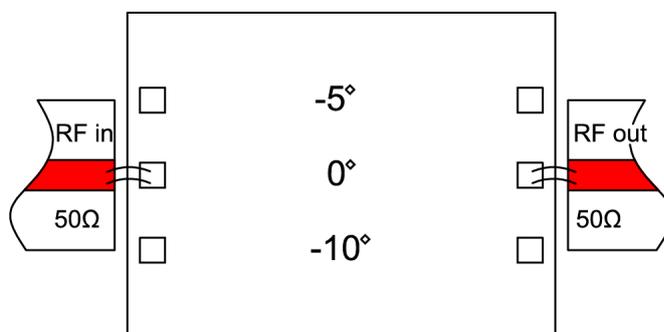
Freq. Range:	4GHz to 14GHz
Input Power:	10W
Insertion Loss:	0.2dB
Input/Output VSWR:	1.2/1.2
Operating Temperature.:	-55 °C to +125 °C
Impedence:	50 Ohm

### Outline Dimension



Parameter	Value (μ m)
Thickness	100
Width	1300
Length	1700
Eletrode Size	100x100

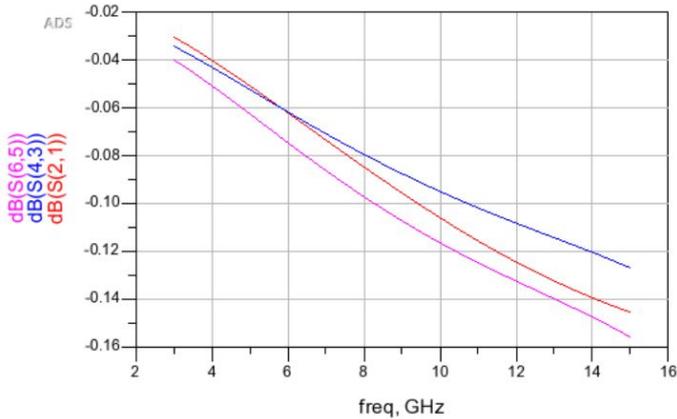
### Recommended Assembly Drawing



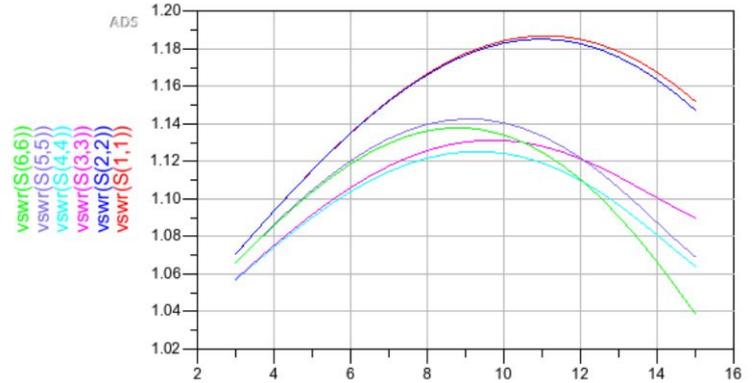
Note: relative phase of each circuit = absolute phase of each circuit - absolute phase of the middle branch, eg at 9GHz, From top to bottom, the absolute phase is roughly 60 °、-55°、-65°,then the corresponding relative phase is -5°、0°、-10°.Also can refer to branch, the corresponding relative phase is 0°、5°、-5°

### Test Curve (Die on the probe platform)

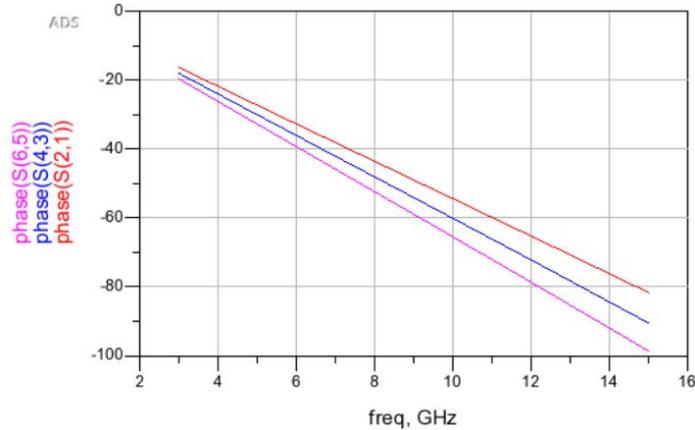
#### Insertion Loss vs.Frequency



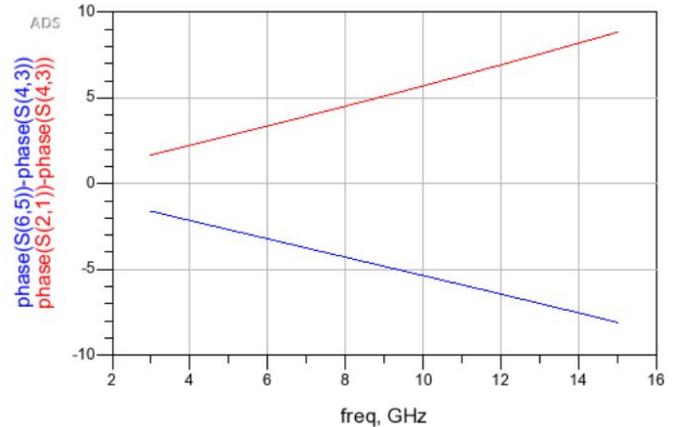
#### In/output VSWR vs.Frequency



#### Absolute Phase vs. Frequency



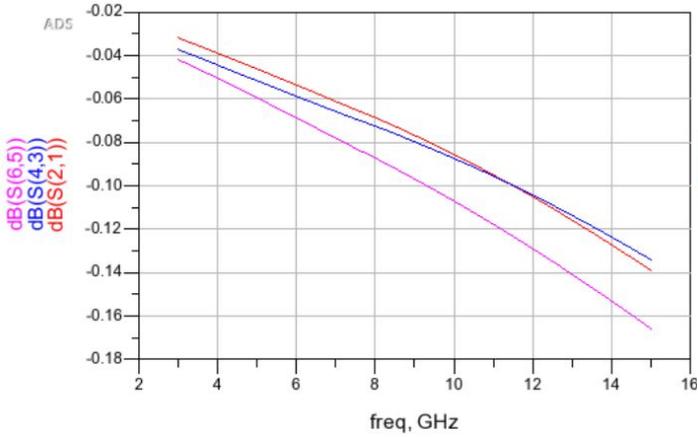
#### Relative Phase vs. Frequency



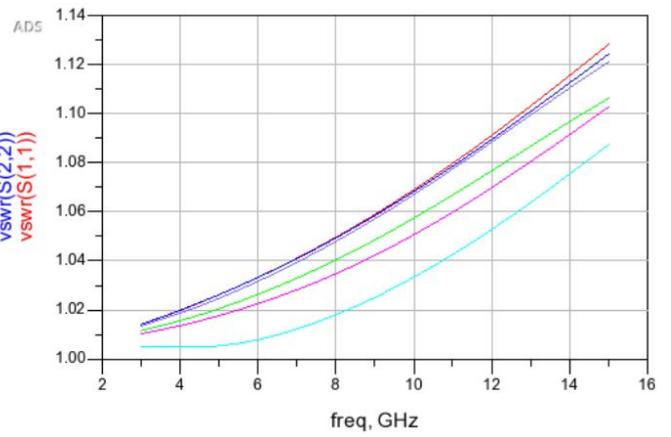
freq	phase(S(2,1))-phase(S(4,3))	phase(S(6,5))-phase(S(4,3))
3.000 GHz	1.670	-1.620
3.500 GHz	1.950	-1.890
4.000 GHz	2.230	-2.159
4.500 GHz	2.511	-2.428
5.000 GHz	2.792	-2.697
5.500 GHz	3.075	-2.965
6.000 GHz	3.359	-3.233
6.500 GHz	3.645	-3.500
7.000 GHz	3.932	-3.767
7.500 GHz	4.221	-4.034
8.000 GHz	4.512	-4.301
8.500 GHz	4.805	-4.569
9.000 GHz	5.100	-4.837
9.500 GHz	5.397	-5.105
10.000 GHz	5.697	-5.374
10.500 GHz	5.999	-5.644
11.000 GHz	6.304	-5.914
11.500 GHz	6.611	-6.185
12.000 GHz	6.921	-6.457
12.500 GHz	7.234	-6.730
13.000 GHz	7.549	-7.003
13.500 GHz	7.866	-7.277
14.000 GHz	8.186	-7.552
14.500 GHz	8.508	-7.827
15.000 GHz	8.832	-8.103

Test curve (add 200um double wire-bonding)

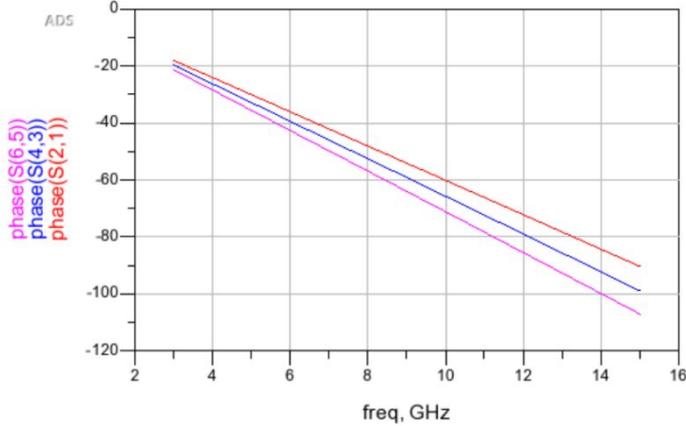
**Insertion Loss vs.Frequency**



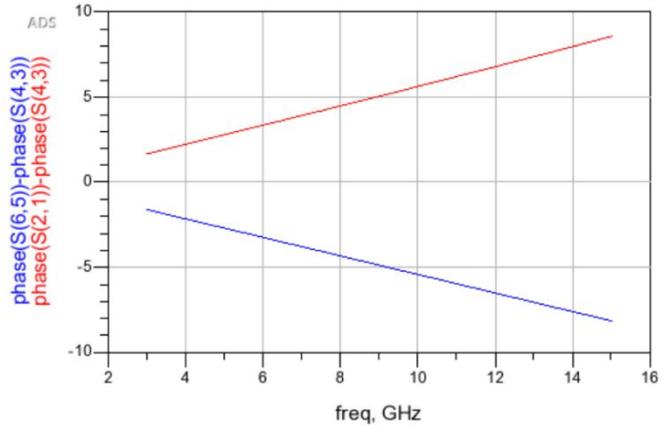
**In/output VSWR vs.Frequency**



**Absolute Phase vs. Frequency**



**Relative Phase vs. Frequency**



freq	phase(S(2,1))-phase(S(4,3))	phase(S(6,5))-phase(S(4,3))
3.000 GHz	1.666	-1.623
3.500 GHz	1.944	-1.894
4.000 GHz	2.223	-2.166
4.500 GHz	2.501	-2.437
5.000 GHz	2.780	-2.709
5.500 GHz	3.059	-2.980
6.000 GHz	3.339	-3.251
6.500 GHz	3.619	-3.523
7.000 GHz	3.901	-3.795
7.500 GHz	4.183	-4.066
8.000 GHz	4.466	-4.338
8.500 GHz	4.751	-4.610
9.000 GHz	5.036	-4.883
9.500 GHz	5.323	-5.155
10.00 GHz	5.611	-5.428
10.50 GHz	5.900	-5.700
11.00 GHz	6.190	-5.973
11.50 GHz	6.482	-6.246
12.00 GHz	6.774	-6.519
12.50 GHz	7.068	-6.791
13.00 GHz	7.363	-7.064
13.50 GHz	7.660	-7.336
14.00 GHz	7.957	-7.607
14.50 GHz	8.256	-7.879
15.00 GHz	8.555	-8.150