

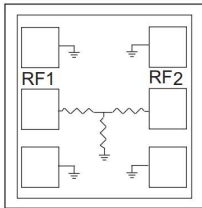
### Performance

- Frequency: DC~40GHz
- Type: 0、0.5、1、2、3、5、6、10、15、20dB
- Power Handling: +27dBm

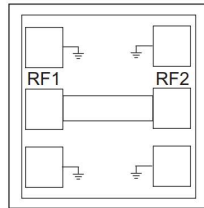
### Chip size

BW099, BW101, BW102, BW103, BW104, BW105,  
BW108: 0.57\*0.62\*0.1mm  
BW100, BW106, BW107, BW109: 0.57\*0.79\*0.1mm

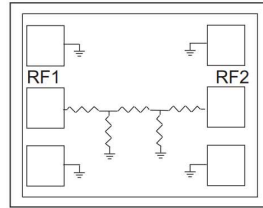
### Function Diagram



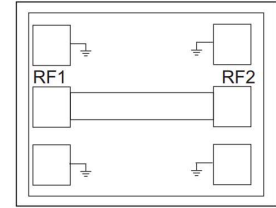
BW099, BW101, BW102,  
BW103, BW104, BW105



BW108



BW100, BW106, BW107



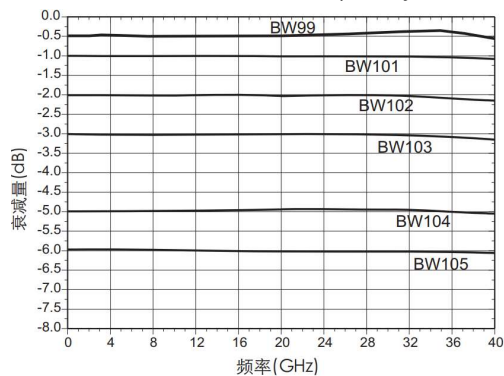
BW109

### Electrical Specifications (Ta=+25°C, 50Ω system)

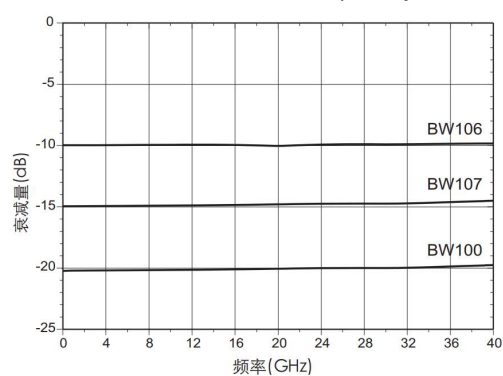
Part Number	Attenuation (dB)	Return loss (dB)	Attenuation Flatness (dB)	Return Loss (dB)	Attenuation Flatness (dB)
		DC~20GHz		20~40GHz	
BW099	0.5	20	±0.2	15	±0.4
BW101	1	20	±0.3	15	±0.5
BW102	2	20	±0.3	15	±0.5
BW103	3	20	±0.3	15	±0.5
BW104	5	20	±0.3	15	±0.5
BW105	6	20	±0.3	15	±0.5
BW106	10	20	±0.4	15	±0.7
BW107	15	20	±0.4	15	±0.7
BW100	20	20	±0.4	15	±0.7
BW108	Thru line (short)	20	±0.3	15	±0.5
BW109	Thru line (long)	20	±0.3	15	±0.5

### Test Curve

Attenuation vs. Frequency



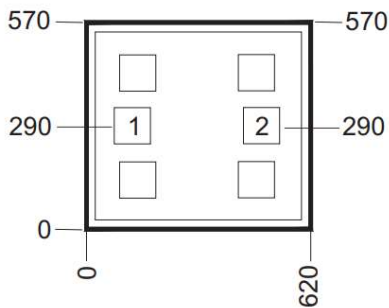
Attenuation vs. Frequency



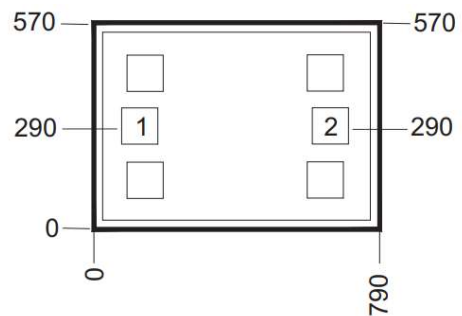
### Absolute Ratings

Input Power	BW099	BW101	BW102	BW103	BW104	BW105	BW106	BW107
	27dBm	30dBm	29dBm	28dBm	27dBm	27dBm	27dBm	27dBm
DC voltage (Terminated with load)	+5V							
DC voltage (Terminated with open)	+5V							
Storage Temperature	-65~+150°C							
Operating Temperature	-55~+125°C							

### Outline size



BW099, BW101, BW102, BW103, BW104, BW105 & BW108



BW100, BW106, BW107 & BW109

### Bonding Definition

Number	Symbol	Description
1,2	RF1, RF2	RF ports, 50ohm, DC coupling
-	GND	Bottom must be grounded



### Notes

1. Unit: mm
2. Bottom is gold plated
3. Bottom is grounded
4. Don't bonding on thru holes
5. Pads is gold plated, size: 100\*100um
6. Size tolerance: ±50um

### Application

