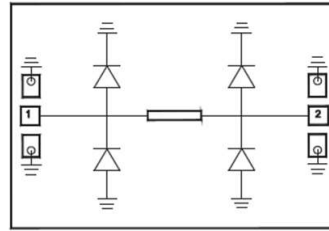


### Performance

- Frequency: 8~12GHz
- Max. Pin: 100W (Pulse, 3ms, 30% D.C)
- Typical Insertion loss: 0.7dB
- Limit Power: 20dBm
- VSWR<sub>in/out</sub>: 1.5:1
- Chip size: 2.82\*2.78\*0.1mm

### Function Diagram

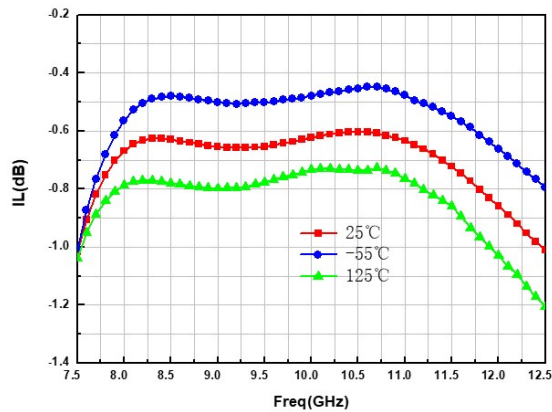


### Electrical Specifications (Ta=+25°C, 50Ω system)

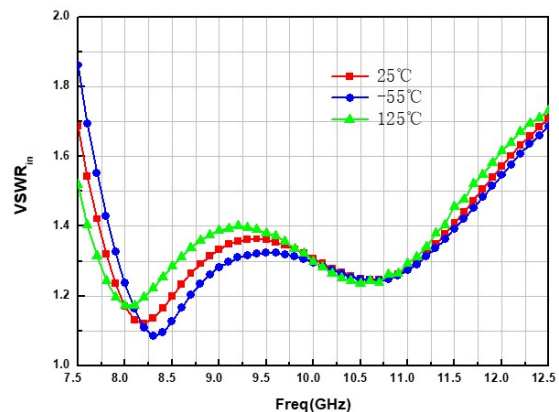
Parameter	Test Condition	Min	Typical	Max	Unit
Small Signal Insertion Loss	Pin=0dBm, 8~12GHz	-	0.6	0.8	dB
Input VSWR		-	1.4	1.5	-
Output VSWR		-	1.4	1.5	-
Output Power	Pin ≤ 50dBm (3ms, 30% D.C)	-	18	20	dBm

### Test Curves

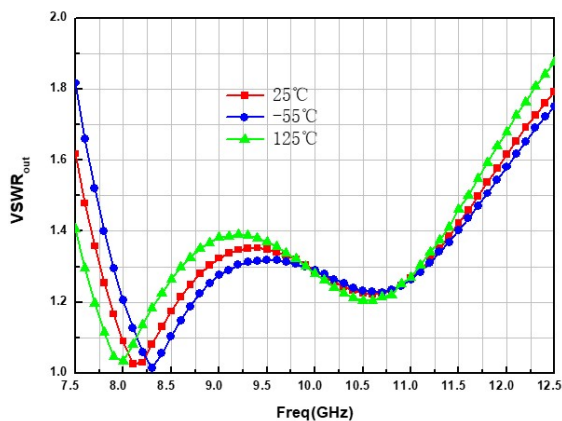
Insertion loss vs. Freq



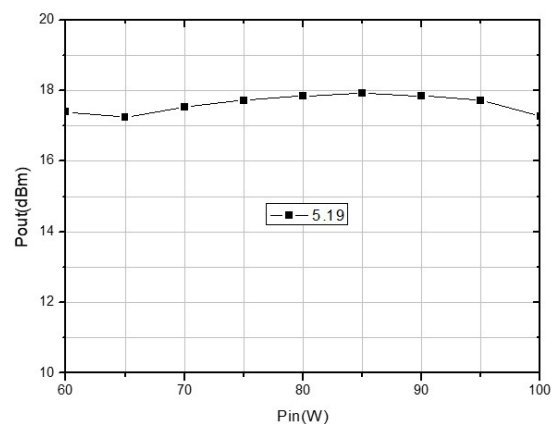
Input VSWR vs. Freq

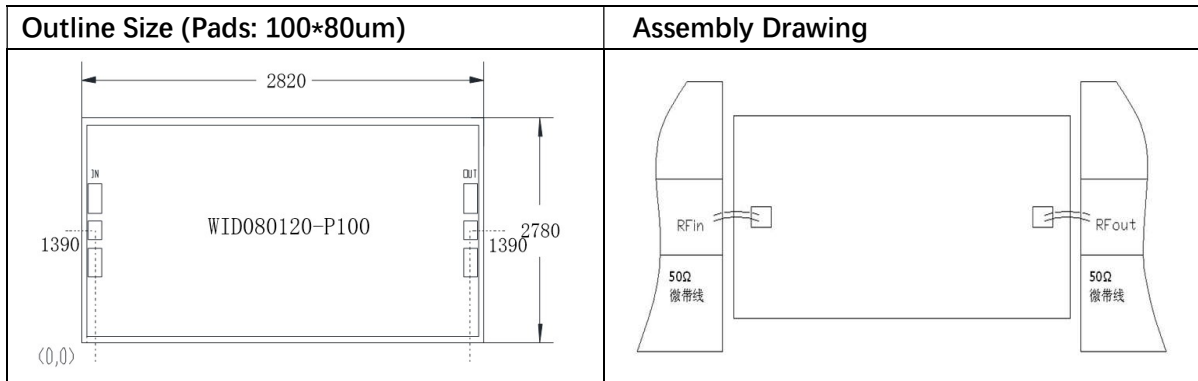


Output VSWR loss vs. Freq



Limit Level (@ 10GHz)





### Pads Definition

Number	Description
IN	RF input port, connect to 50Ω system, no block capacitor needed.
OUT	RF output port, connect to 50Ω system, no block capacitor needed.

### Absolute Max Ratings

Input Signal Power	50 dBm	Pulse, 3ms, 30% D.C
Mounting Temperature	290°C	1min, N <sub>2</sub> protection
Storage Temperature	-55~ +150°C	

**Exceeding any one or combination of these limits may cause permanent damage**

