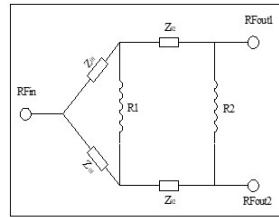


Performance

- Frequency: 2-18GHz
- Insertion loss: 1.4dB
- Isolation: 11.5dB
- Input/Output VSWR: 1.7:1
- Chip size: 1.8*1.8*0.1mm

Function Diagram



Electrical Specifications (Ta=+25°C, 50Ω system, Pin=0dBm)

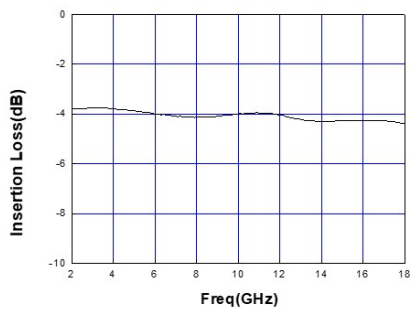
Parameter	Min	Typical	Max	Unit
Frequency Range		2-18		GHz
Insertion Loss	-	1.0	-	dB
VSWRin	-	1.4	-	
VSWRout	-	1.4	-	
Isolation		16	-	dB

Absolute Max Ratings

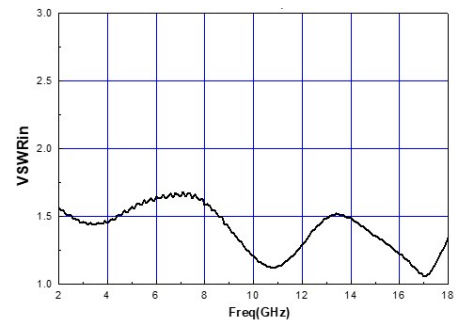
Symbol	Parameter	Value	Note
Pin	Input Signal Power	30dBm	
Tm	Junction Temperature	310°C	1 min, N2 protection
Tstg	Storage Temperature	-65~150°C	

Test Curves

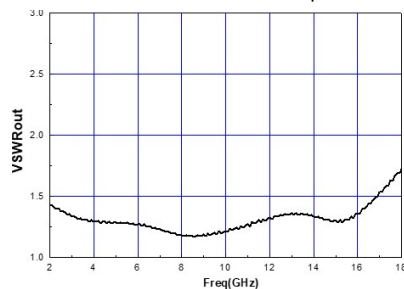
Insertion loss vs. Freq



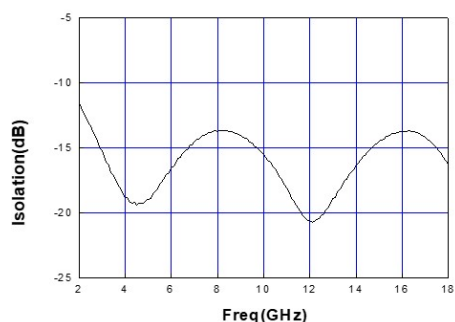
VSWRin vs. Freq



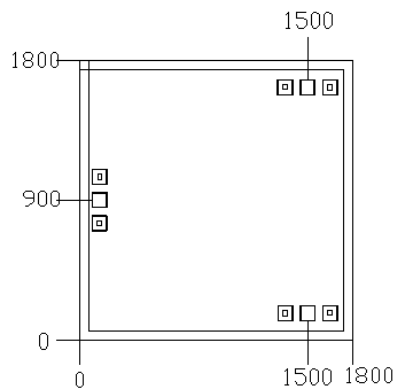
VSWRout vs. Freq



Isolation vs. Freq



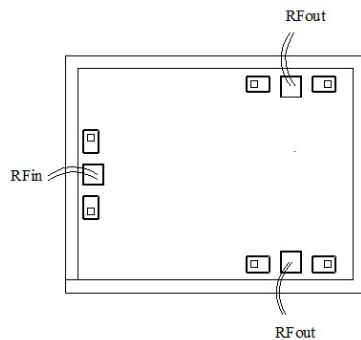
Outline Size



Note:

1. Unit: μm
2. Bottom side is gold plated
3. Bottom side is GND
4. Bonding pads is gold plated
5. Don't bonding on thru holds
6. Tolerance: $\pm 50\mu\text{m}$

Assembly Diagram



Bonding Definition

Pads	Description
RFIn	RF input port, connect to 50ohm system, no need block capacitor
RFout1	RF output port, connect to 50ohm system, no need block capacitor
RFout2	RF output port, connect to 50ohm system, no need block capacitor