

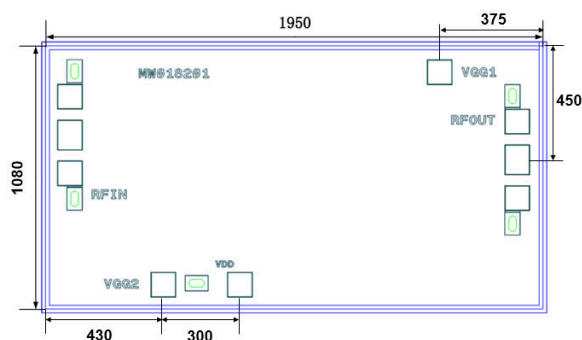
## General Description

The MWL015 is a low noise amplifier designed and manufactured using the GaAs pHEMT process. This amplifier requires +5V voltage supply, normal operating current is 51mA, operating frequency can cover 1-12GHz, providing 16dB small signal gain, noise figure is 1.5dB. Due to its excellent performance, this product can be widely used in many fields such as point-to-point mobile communication, VSAT and so on.

## Features

Noise Figure: 1.5dB@10GHz  
 Gain: 16dB;  
 Supply Current: +5.0V@55mA  
 Chip Size: 1950×1080um

## Functional Diagram( Typicalbond: 100x100um)

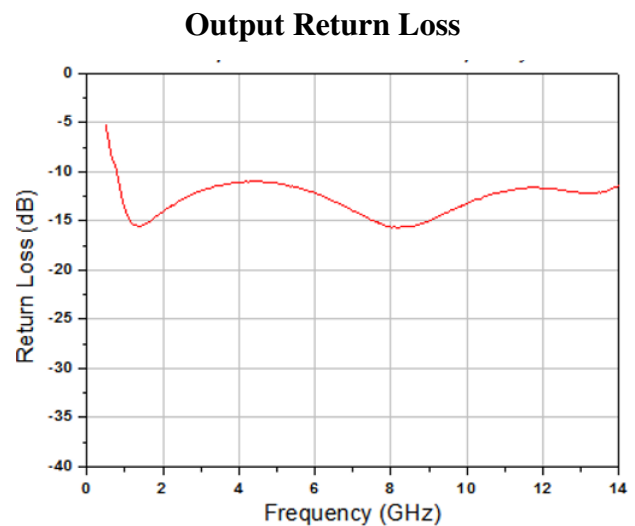
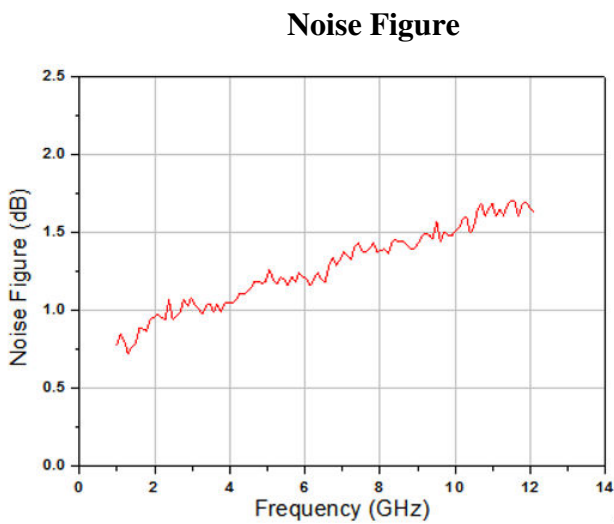
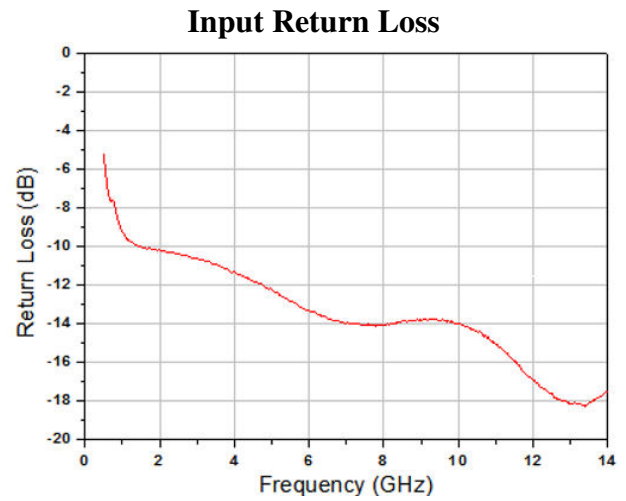
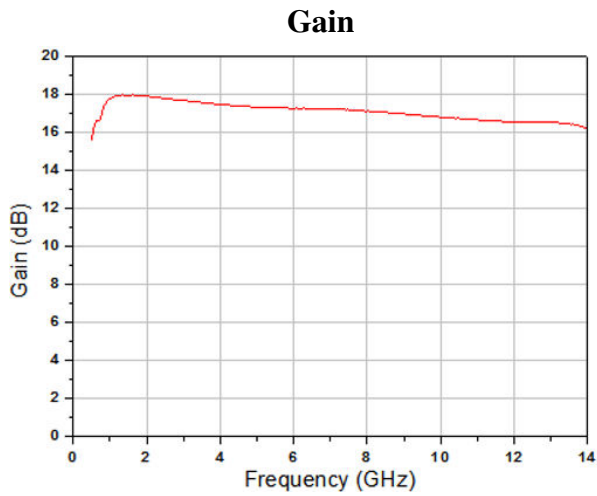


(Die Thickness: 100 um)

## Electrical Specifications, $T_A = +25^\circ\text{C}$ , $V_{dd} = +5.0\text{V}$

Parameter	Min	Typ	Max	Units
Bandwidth	1		12	GHz
Gain		16		dB
Noise Figure		1.5		dB
Input Return Loss		10		dB
Output Return Loss		10		dB
Supply Current ( @Vdd=5V,Vgg1= -0.5V,Vgg2=1.5V,Typ )		55		mA

### Test Results



### Assembly Diagram

