

## Features

- External Reference
- Output Power : 13dBm
- Output Freq. : 13 GHz
- Harmonics : -20 dBc
- RoHS and REACH Compliant

## Electrical Specifications

Description	Units	Minimum	Typical	Maximum
Output Frequency	GHz		13	
Output Power	dBm		13±1.5	
Phase Noise@10Hz	dBc/Hz			
Phase Noise@100Hz	dBc/Hz			-84
Phase Noise@1KHz	dBc/Hz			-112
Phase Noise@10KHz	dBc/Hz			-116
Phase Noise@100KHz	dBc/Hz			-116
Phase Noise@1MHz	dBc/Hz			-130
Reference Frequency	MHz		100	
Reference Input Power	dBm		-	
2nd Harmonics	dBc		-20	
Spurious	dBc		-70	
Supply Voltage	V		+12	+
Current	mA		200	
Operating Temp.	°C	-40		+70
Lock Detect	TTL High (3.3V - 5V) in Lock ; TTL Low (0V -0.7V) Unlock			

## Note

- Electronic Specification Note : Values at 25deg , sea level. Test indicators will deteriorate at high and low temperature ;
- External Reference & Dual Loop Models Frequency Stability : Same as External Reference.
- External Ref. Phase noise deteriorate : =20 log ( Output Freq / Ref. Freq ) +3

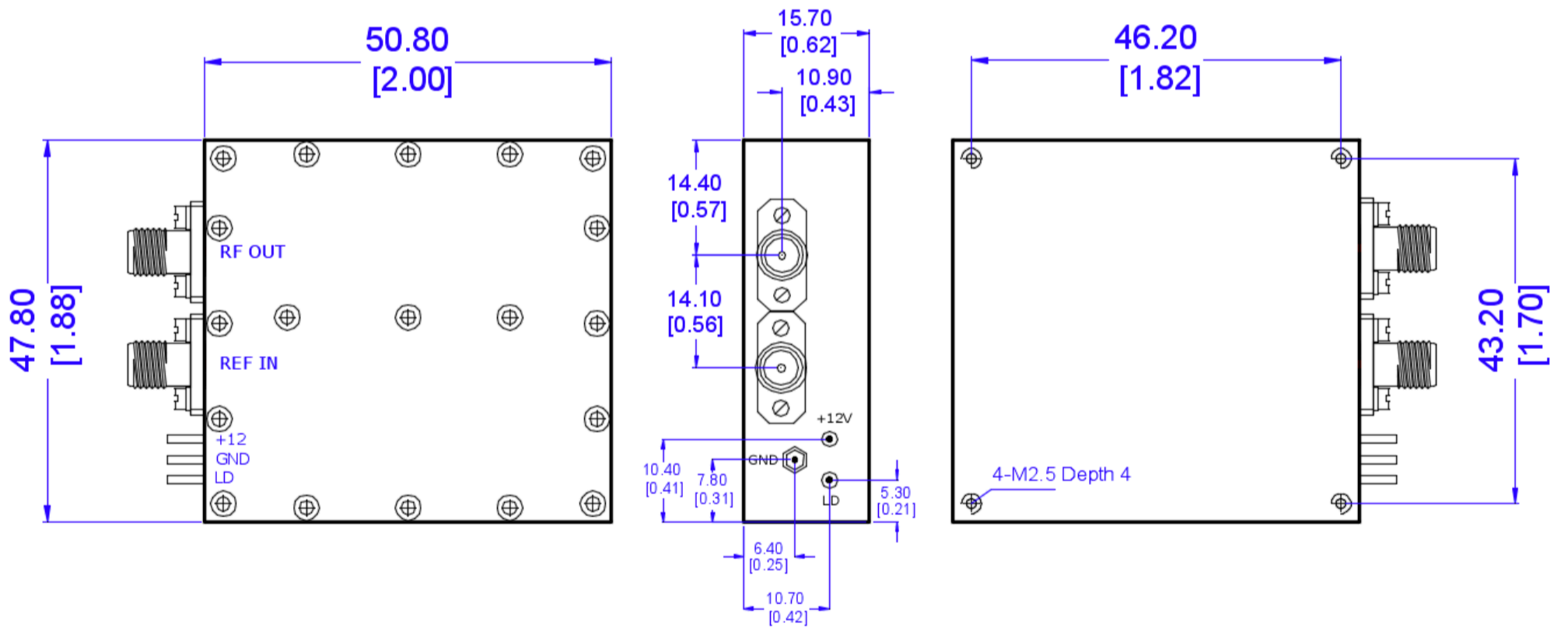
**Mechanical Specifications**

Dimension L*W*H	50.8*47.8*15.7 mm
Ref. Connector	SMA-Female Stainless Steel
Output Connectors	SMA-Female Stainless Steel
Weight	165 g
Finishing	Nickel Plated
Environment	Nominal

**Compliance Certifications**

RoHS Compliant	✓
REACH Compliant	✓

**CAD Drawing**



Dimensions are in mm [Inches]  
Tolerances : Outline drawing: ±0.2 [0.008]  
Hole: ±0.2 [0.008]