

## Features

- External Reference
- Output Power : 13dBm
- Output Freq. : 13.1 GHz
- Harmonics : -20 dBc
- RoHS and REACH Compliant

## Electrical Specifications

Description	Units	Minimum	Typical	Maximum
Output Frequency	GHz		13.1	
Output Power	dBm		13±2	
Phase Noise@10Hz	dBc/Hz			
Phase Noise@100Hz	dBc/Hz			-75
Phase Noise@1KHz	dBc/Hz			-100
Phase Noise@10KHz	dBc/Hz			-105
Phase Noise@100KHz	dBc/Hz			-105
Phase Noise@1MHz	dBc/Hz			-120
Reference Frequency	MHz		50	
Reference Input Power	dBm		0 to 6	
2nd Harmonics	dBc		-20	
Spurious	dBc		-70	
Supply Voltage	V		+12	
Current	mA		300	
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

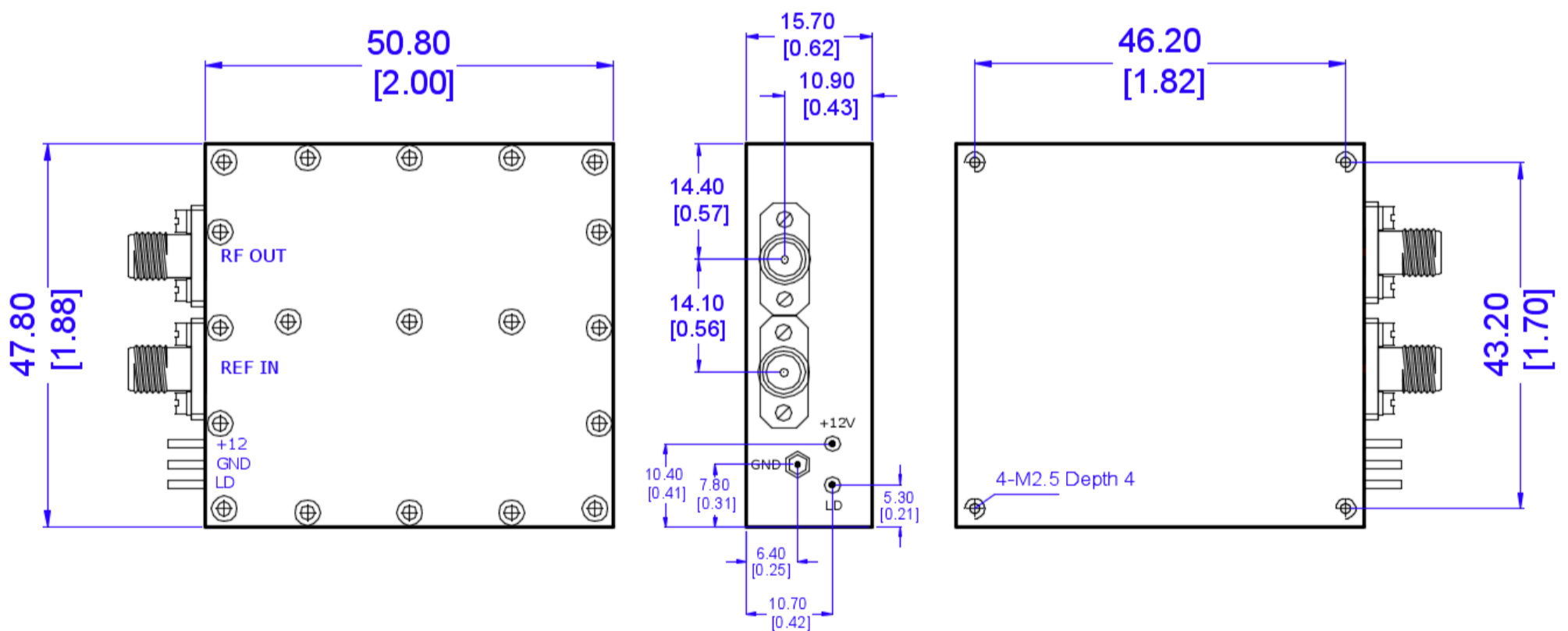
### Mechanical Specifications

Dimension L*W*H	50.8*47.8*15.7 mm
Ref. Connector	SMA-Female Stainless Steel
Output Connectors	SMA-Female Stainless Steel
Weight	85 g
Finishing	Self-colour Anodizing
Environment	Nominal

### Compliance Certifications

RoHS Compliant	✓
REACH Compliant	✓

### CAD Drawing



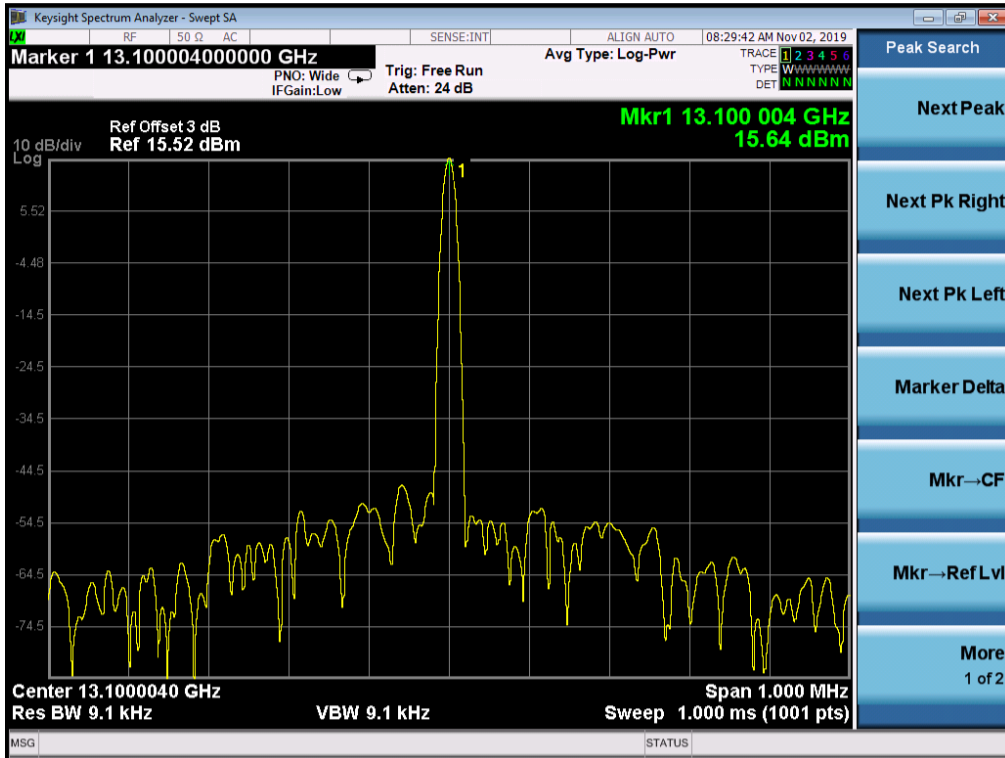
Dimensions are in mm [Inches]  
Tolerances : Outline drawing: ±0.2 [0.008]  
Hole: ±0.2 [0.008]



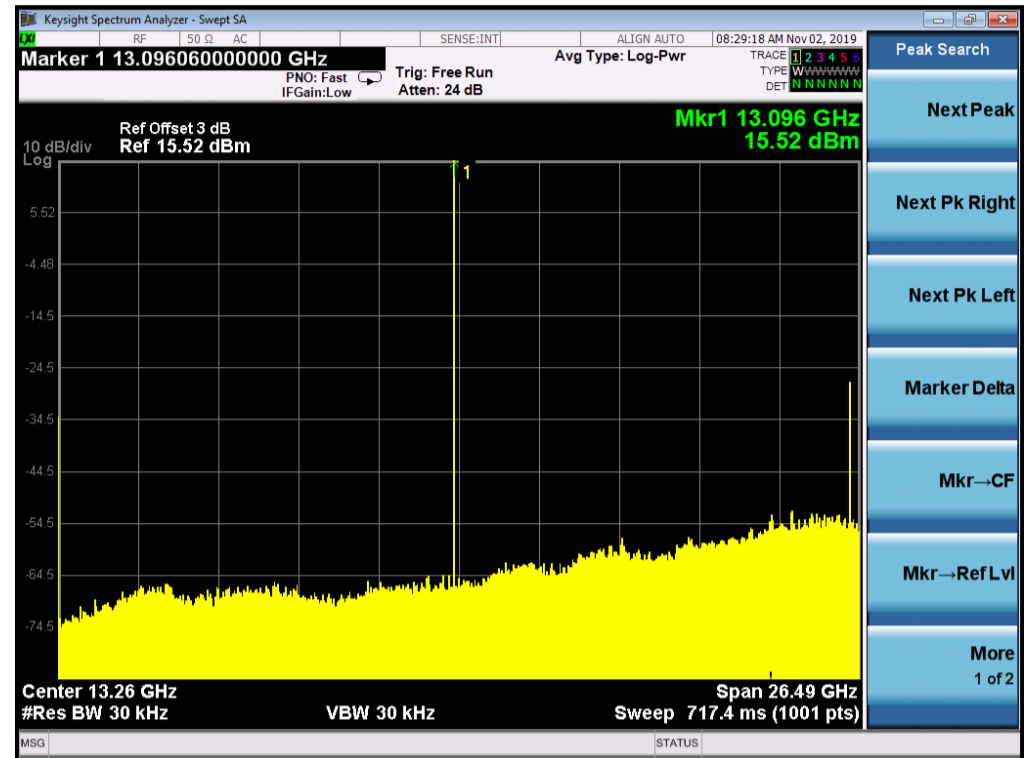
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PN : DP13-1310E50SF

Output Power



Spurious and Harmonics



Phase Noise (dBc/Hz)

