

FEATURES:

- Triple Output
- Low Phase Noise
- Low Spurious
- Phase Locked to External Reference
- 28V DC Supply Voltage
- Humidity Protected Mechanical Package



ELECTRICAL SPECIFICATIONS:

Parameter	Min.	Typ.	Max.	Units
Output Frequency		13.6		GHz
External Reference Frequency		100		MHz
Output Power	13	14		dBm
Output Power Variation over Temperature		±0.25	±0.5	dB
External Reference Input Power	-3	0	+3	dBm
Harmonics		-40	-25	dBc
Spurious		-100	-80	dBc
Supply Voltage	12	28	28.5	V
Supply Current		280	350	mA
Load VSWR			3:1	-
Lock Detect-LK (Open Collector)	(Out of Lock) 0-0.7		(In Lock) 3.3-3.5	V
Phase Voltage-VP	0		8.2	V
Phase Noise				dBc/Hz
1kHz		-112	-110	
10kHz		-120	-115	
100kHz		-120	-115	
1MHz		-135	-133	

*Electrical specifications are given at 25°C.

*Output phase noise depends on external reference phase noise with $20 \log (\text{Output Freq.} / \text{Ref. Freq.}) + 3\text{dB}$.

MECHANICAL SPECIFICATIONS:

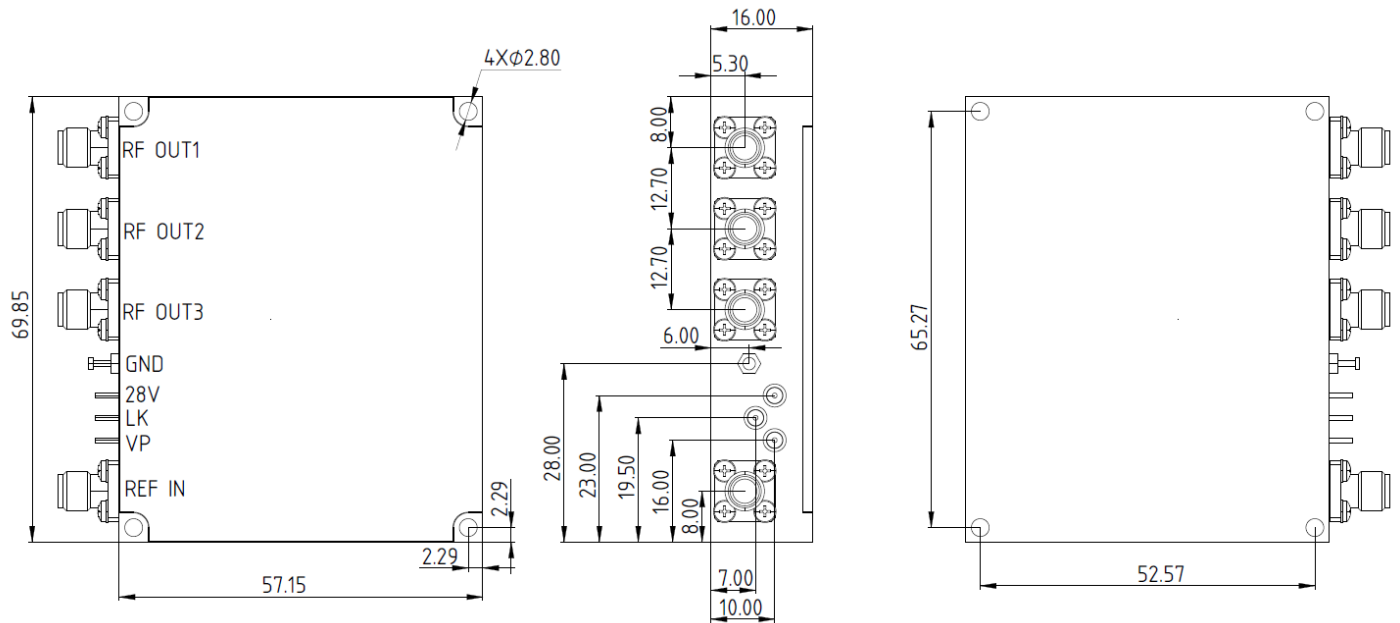
Parameter	Value	Units
Dimensions	2.25" x 2.75" x 0.63"	inches
Weight	128	gr
Plating	Electroless Nickel	-
External Reference Input Connector	SMA Female	-
RF Output Connectors	SMA Female	-

ENVIROMENTAL SPECIFICATIONS:

Parameter	Min.	Max.	Units
Operating Temperature (Base Plate)	-40	+75	°C
Storage Temperature	-40	+85	°C
Humidity	MIL-STD-202H Method 103 Condition B		
Vibration	MIL-STD-810H Method 514.8 Procedure 1 Category 4		

MECHANICAL OUTLINE

- All dimensions are in mm
- Tolerances: +/- 0.2 mm



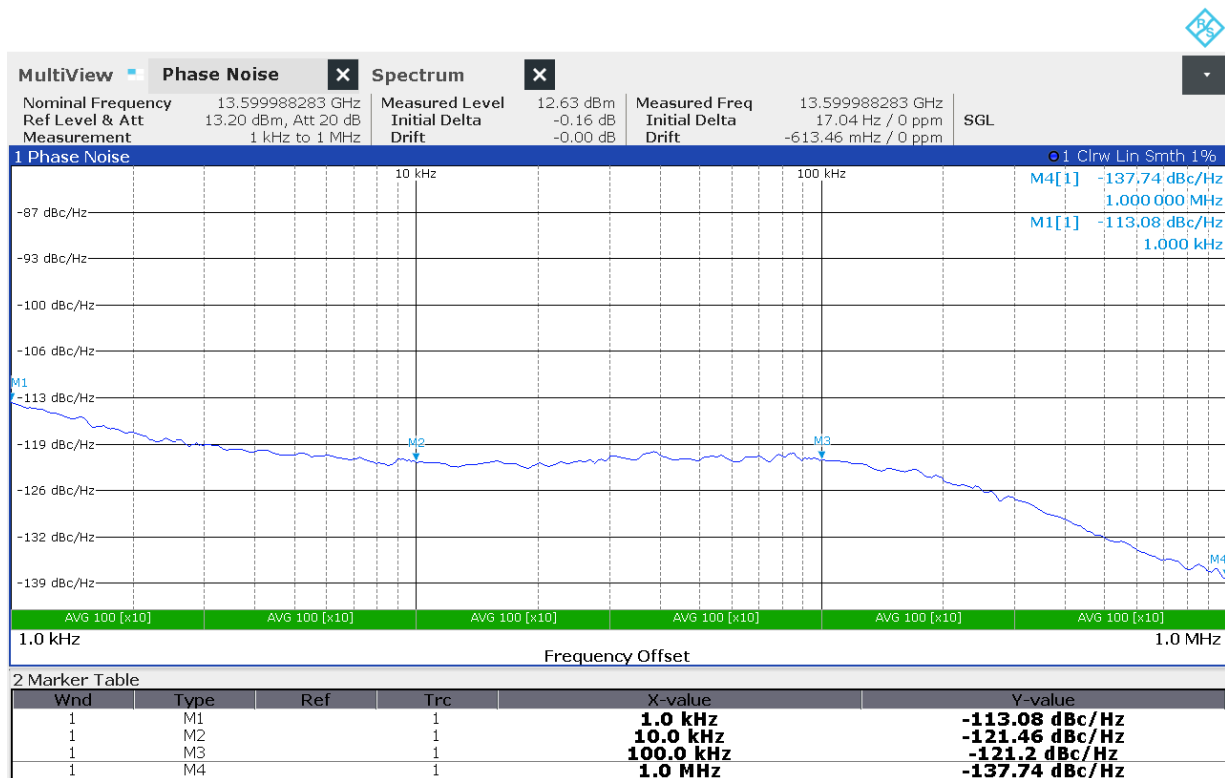


Figure 1: Phase Noise

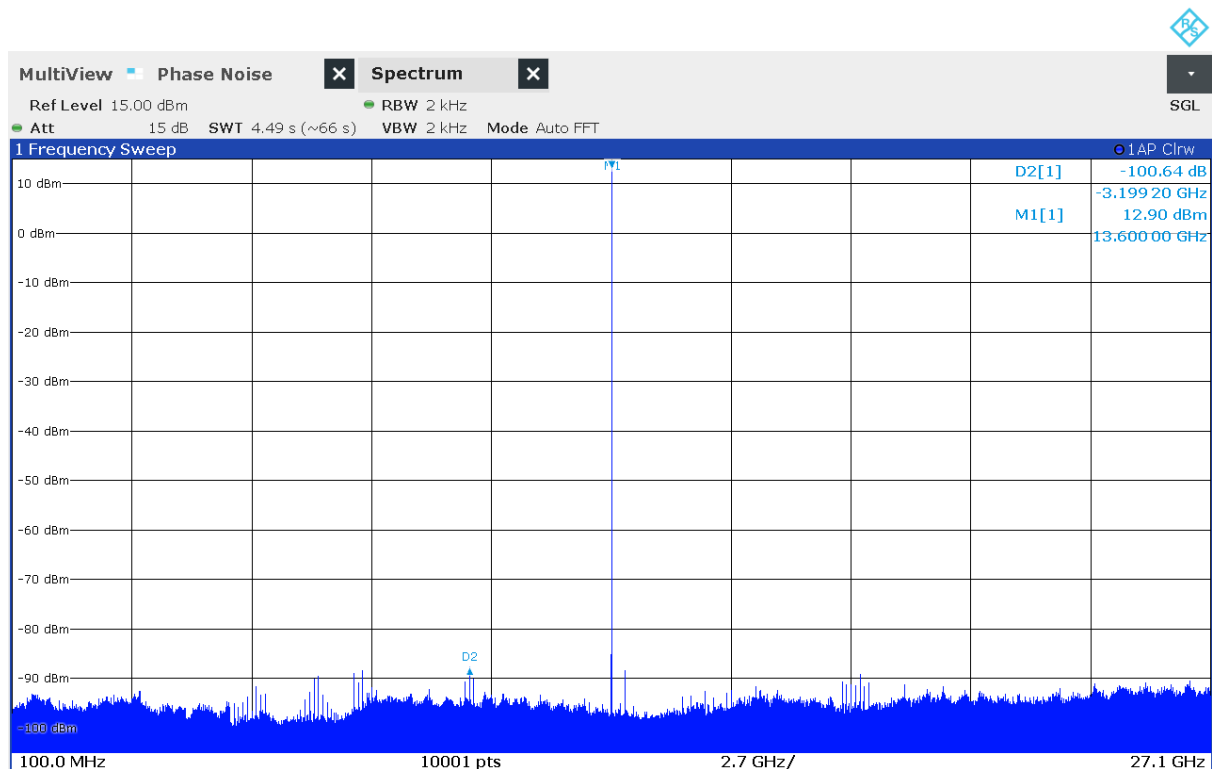


Figure 2: Spurious



REVISION HISTORY:

Rev. No.	Date	Description
A	23-Aug-2025	Original Release