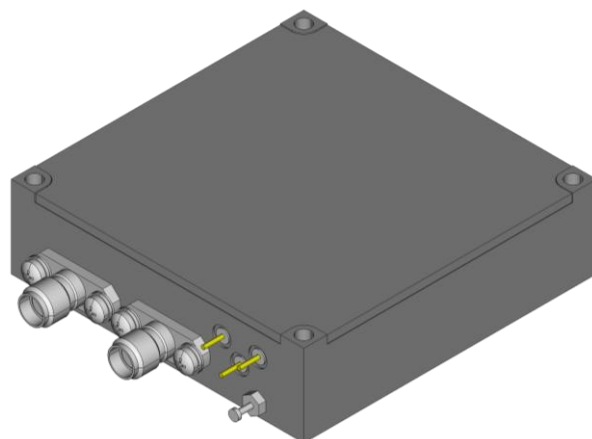


FEATURES:

- Low Phase Noise
- Low Spurious
- Phase Locked to External Reference
- Single Supply Voltage
- Humidity Protected Mechanical Package



ELECTRICAL SPECIFICATIONS:

Parameter	Min.	Typ.	Max.	Units
Output Frequency		10.0		GHz
External Reference Frequency		100		MHz
Output Power	14	15		dBm
Output Power Variation over Temperature		±0.5		dB
External Reference Input Power	-3	0	+3	dBm
Harmonics		-30	-20	dBc
Spurious		-90	-80	dBc
Supply Voltage	11.5	12	12.5	V
Supply Current		200		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		-110		
10kHz		-120		
100kHz		-120		
1MHz		-135		

*Electrical specifications are given at 25°C.

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

MECHANICAL SPECIFICATIONS:

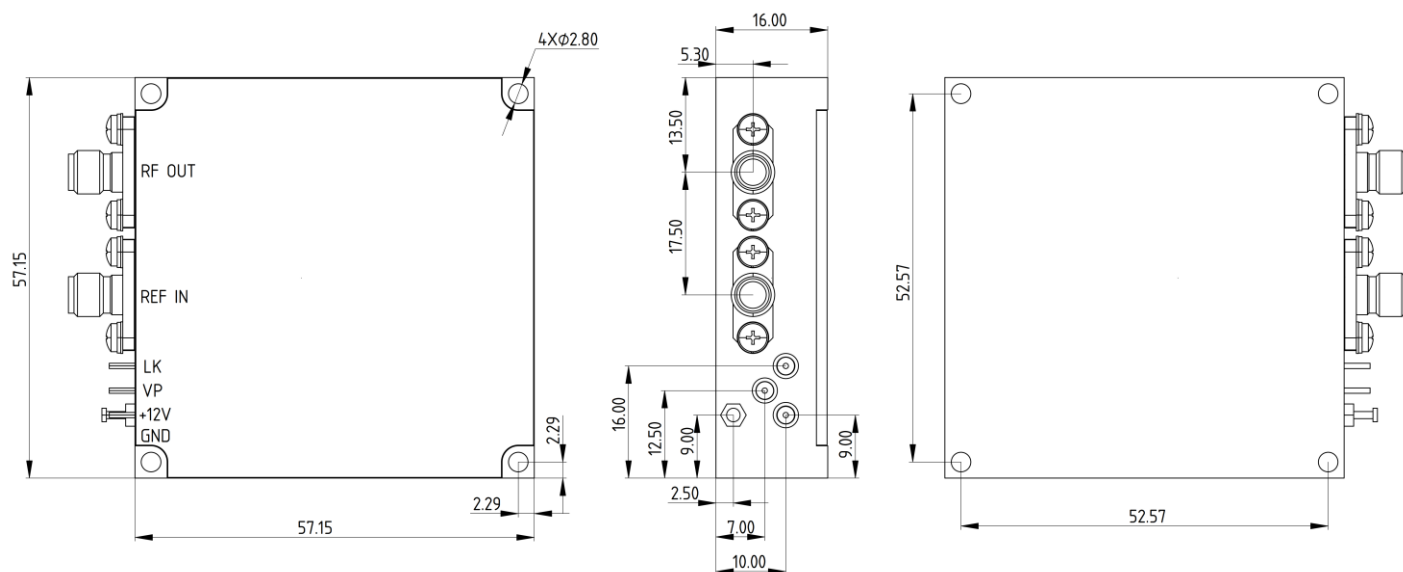
Parameter	Value	Units
Dimensions	2.25" x 2.25" x 0.63"	inches
Plating	Electroless Nickel	-
External Reference Input Connector	SMA Female	-
RF Output Connectors	SMA Female	-

ENVIRONMENTAL 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





REVISION HISTORY:

Rev. No.	Date	Description
P1	23-Aug-2025	Preliminary Release