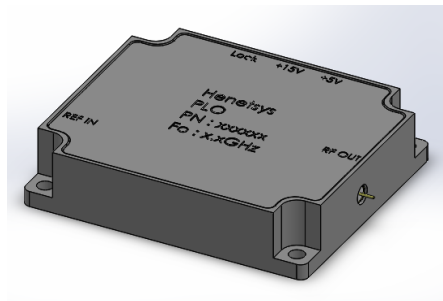


Henetsys PLO Series

Miniature Drop-in Type Phase Locked Oscillator



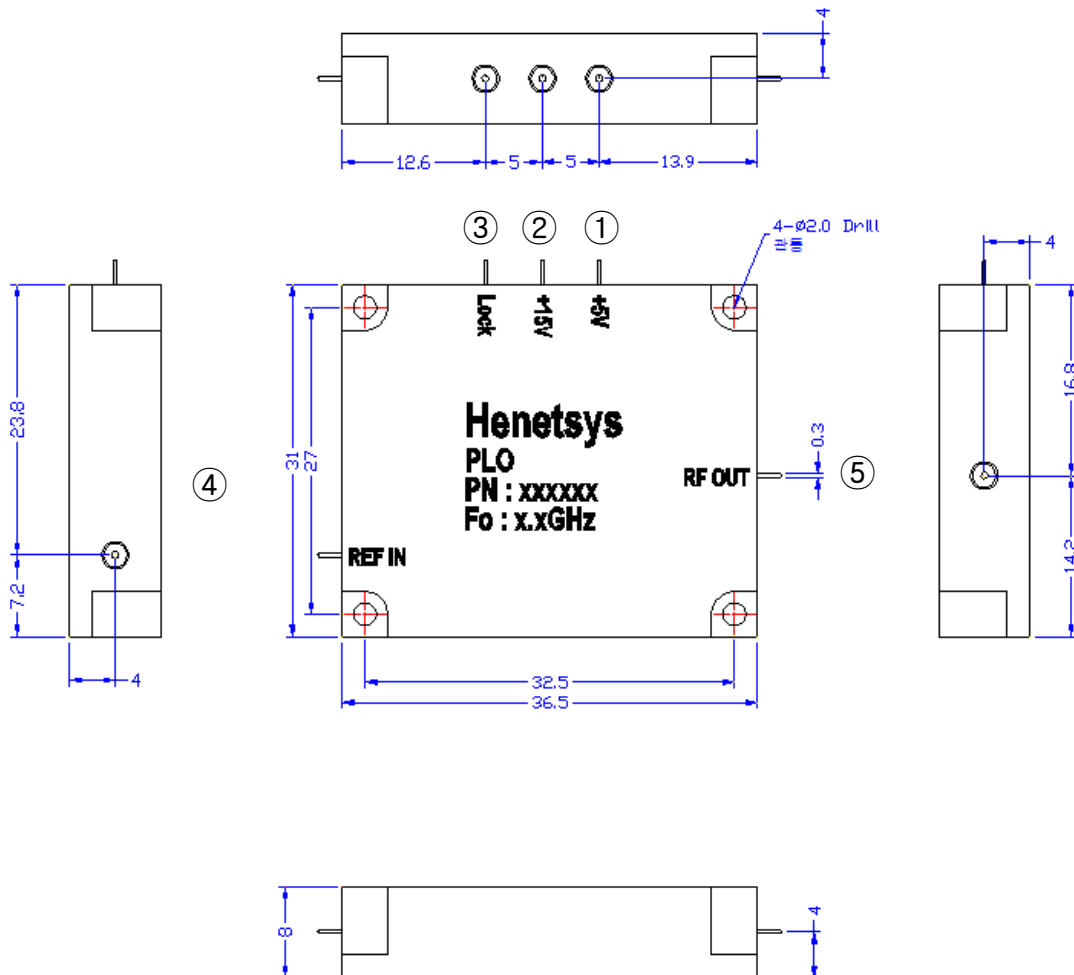
- Ultra Low Phase Noise
- Ultra Small Size
- Drop-in Package
- Internal Processor
- Suitable for X/Ku/Ka-Band Satcom

Product Line-up

Band	Part Number	Output Frequency	PN* @10kHz (typ.)	Reference Frequency	Size
X-Band	HNSPLO6300A	6.3 GHz	-101 dBc/Hz	50MHz*	31 X 36.5 X 8 mm
	HNSPLO6950A	6.95 GHz	-101 dBc/Hz	50MHz*	31 X 36.5 X 8 mm
Ku-Band	HNSPLO9800A	9.8 GHz	-104 dBc/Hz	100MHz	31 X 36.5 X 8 mm
	HNSPLO11300A	11.3 GHz	-94 dBc/Hz	50MHz*	31 X 36.5 X 8 mm
	HNSPLO12950A	12.95 GHz	-95 dBc/Hz	50MHz*	31 X 36.5 X 8 mm
	HNSPLO13050A	13.05 GHz	-95 dBc/Hz	50MHz*	31 X 36.5 X 8 mm
Ka-Band	HNSPLO9625A	9.625 GHz	-100 dBc/Hz	50MHz*	31 X 36.5 X 8 mm
	HNSPLO14525A	14.525 GHz	-94 dBc/Hz	50MHz*	31 X 36.5 X 8 mm

- * For the better phase noise, higher reference frequency option is possible.
- * For the 10MHz reference option, call to henetsys.
- * Other output frequencies possible.

Mechanical Characteristics



NO	FUNCTION
1	VCC1
2	VCC2
3	Lock Detect
4	REF IN
5	RF OUT

*** Notes ***

- Drawing unit : mm

Henetsys LNA Series

**Ultra Low Noise Figure
Ultra Small Size**

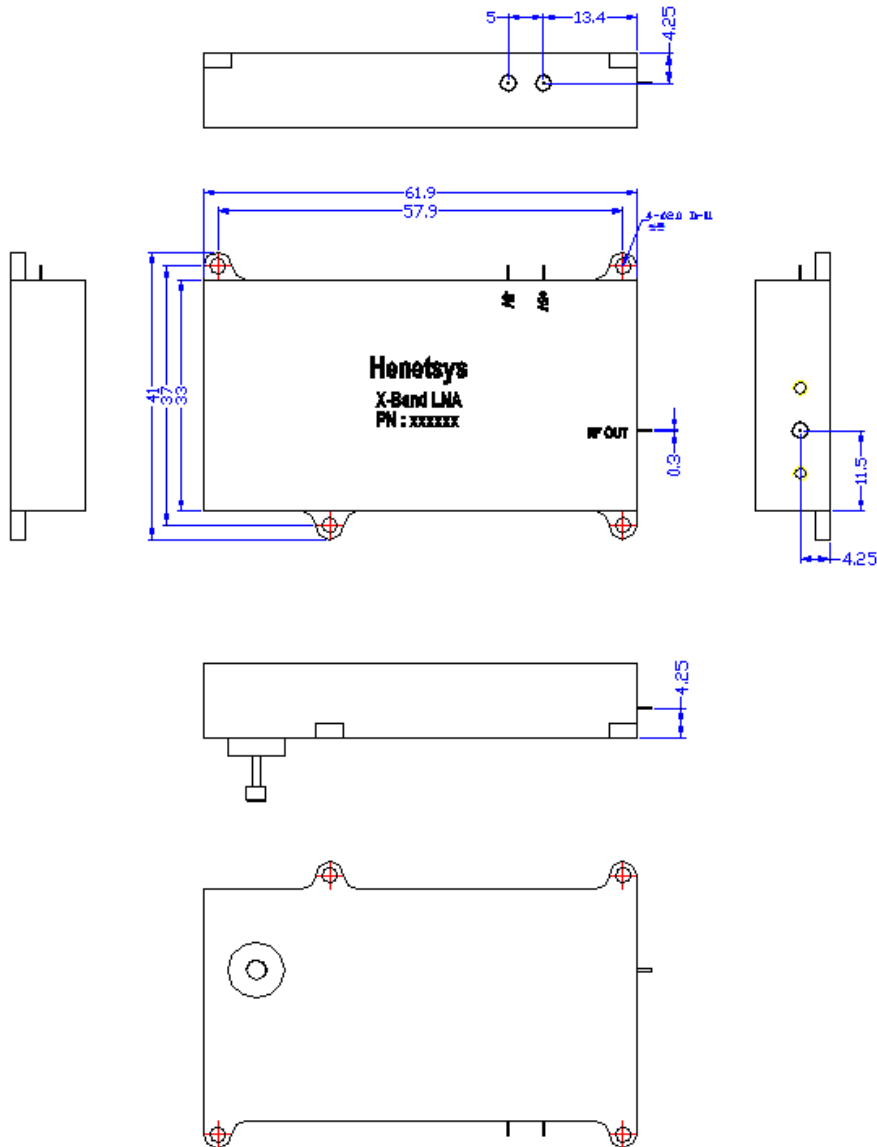
- **Ultra Low Noise Figure**
- **Ultra Small Size**
- **Drop-in Package**
- **Suitable for X/Ku/Ka-Band Satcom**

Product Line-up

Band	Part Number	Start Frequency	Stop Frequency	NF	Size(L*W*H)
				Gain	
X-Band	HNSLNA72507750A	7250MHz	7750MHz	0.7dB	Drop-in Package Input : Waveguide Probe for WG-112
				34dB	
	HNSLNA72507750B	7250MHz	7750MHz	1.0dB	Drop-in Package Input : Drop-in Package
				34dB	

Mechanical Characteristics

A Type : Mechanical Characteristics



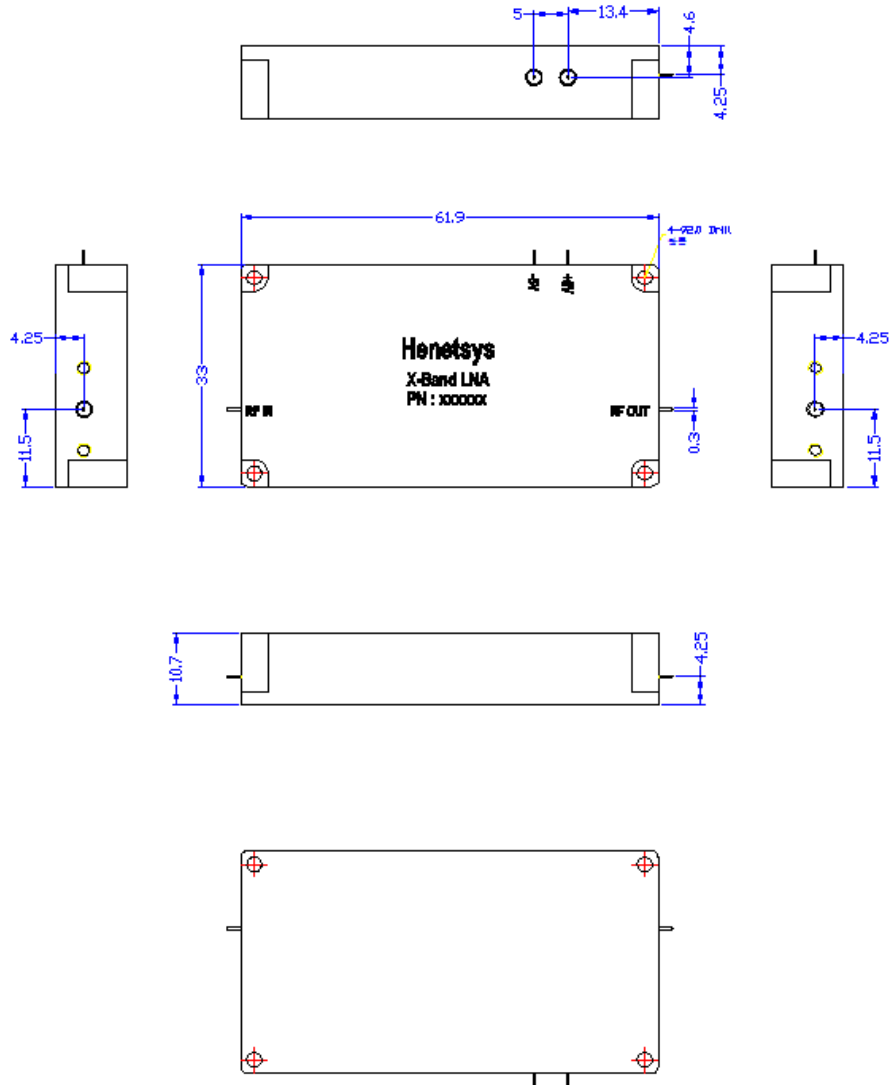
NO	FUNCTION
1	VCC1
2	VCC2
3	RF OUT
4	RF IN

*** Notes ***

Drawing unit : mm

Input : Waveguide Probe for WG-112
 Mechanical design of input waveguide section is provided for the customers.(call to Henetsys)

B Type : Mechanical Characteristics



NO	FUNCTION
1	VCC1
2	VCC2
3	RF OUT
4	RF IN

*** Notes ***

- Drawing unit : mm

Specification Sheet

X-band LNA Module

1. Electrical Characteristics

No	Item	Condition	Specification			Unit
			Min	Typ	Max	
1	Frequency		9000		9500	MHz
2	Gain			20		dB
3	Noise Figure				1.0	dB
4	P1dB	Output	+11			dBm
5	Gain flatness				±0.5	dB
6	OIP3		2			dBm
7	Max. Linearity Input		-9			dBm
8	Supply Voltage		+8		+20	VDC
9	Current Consumption				70	mA
10	Pulse Width			100		us
11	Peak Input Power	No damage	17dBm (duty 26%)			

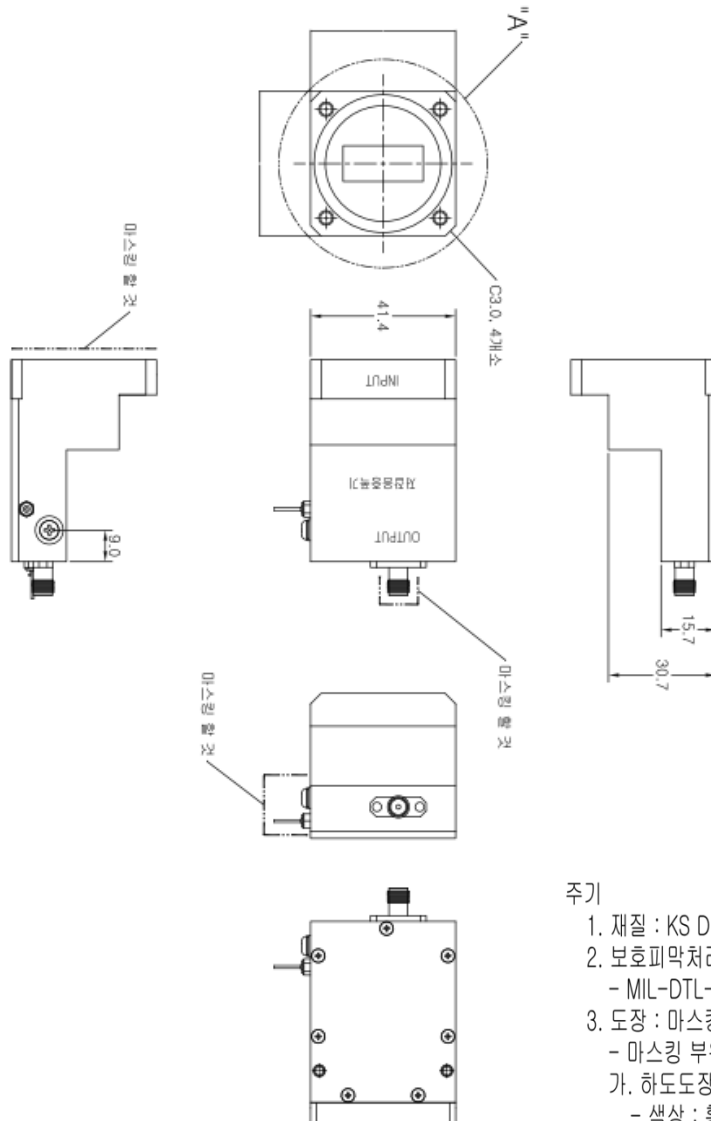
2. Environmental Characteristics

No	Item	Condition	Specification	Remark
1	Operating Temperature		0~+45°C	Meets electrical characteristics
2	Storage Temperature		-30~+85°C	

3. Mechanical Characteristics

No	Item	Condition	Specification	Remark
1	Input Port		WR-90 (grooved)	
2	Output Port		SMA (F)	

4. Mechanical Characteristics



주 기

1. 재질 : KS D 6701의 A6061P
2. 보호피막처리
- MIL-DTL-5541F의 I형 3종에 준한 황색크로메이트
3. 도장 : 마스크 부위를 제외한 전부위 적용
- 마스크 부위 : 지시부, 구멍부, 커넥터, GND단자, EMI단자
가. 하도도장 : MIL-P-23377의 I형, 1종, 에폭시 프라이머
- 색상 : 황색
- 두께 : 15.2 μ m ~ 22.9 μ m
나. 상도도장 : MIL-P-22750의 I형, 에폭시 페인트
- 색상 : FED-STD-595의 36231(회색)
- 두께 : 40.6 μ m ~ 61.0 μ m
4. 각인
가. 문자체 : 고딕체
나. 문자 높이 : 3.0
다. 음각 선포 : 0.5, 깊이 : 0.5
라. 문자 폭비 : 0.8
마. 도료 색상 : 흑색
바. 도료 : TT-F-325의 I형, 색상-흑색

* Notes *

- Drawing unit : mm