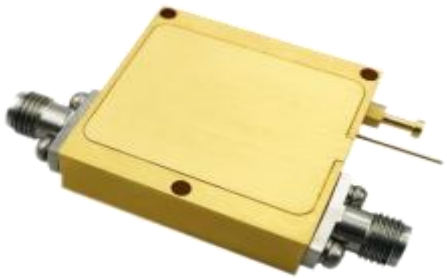
Skylink Microwave

0.1-18GHz Low Noise Amplifier

Features:

- Ultra Broadband : 0.1~18GHz
- Low Noise Figure: 1.8dB
- High Gain: 30dB
- P1dB Output Power: 15dBm
- High OIP3: 25dBm
- Supply Voltage : +12V@ 150mA



Applications:

- Radar Systems
- Communication Systems
- Receiving Systems

ELECTRICAL SPECIFICATIONS +25°C

Parameter	Min	Typ	Max	Units
Frequency Range	0.1		18	GHz
Gain	30			dB
Gain Flatness			±2	dB
Input VSWR		1.8	2.3	-
Output VSWR		1.8	2.3	-
Output Power for 1 dB Compression (P1dB)	10	15		dBm
Noise Figure		2.1		dB
Spurious		-60		dBc
OIP3		25		dBm
Input Max Power(no damage)			+10	dBm
DC Current (Vcc=+12~15V)		150		mA
Weight		50		g
Impedance		50		Ω
Input Connector		SMA-Female		
Output Connector		SMA-Female		
Material/Finishing		Aluminum\Gold Plating		
Package Sealing		General Sealing (Standard); Hermetically Seal(Optional)		

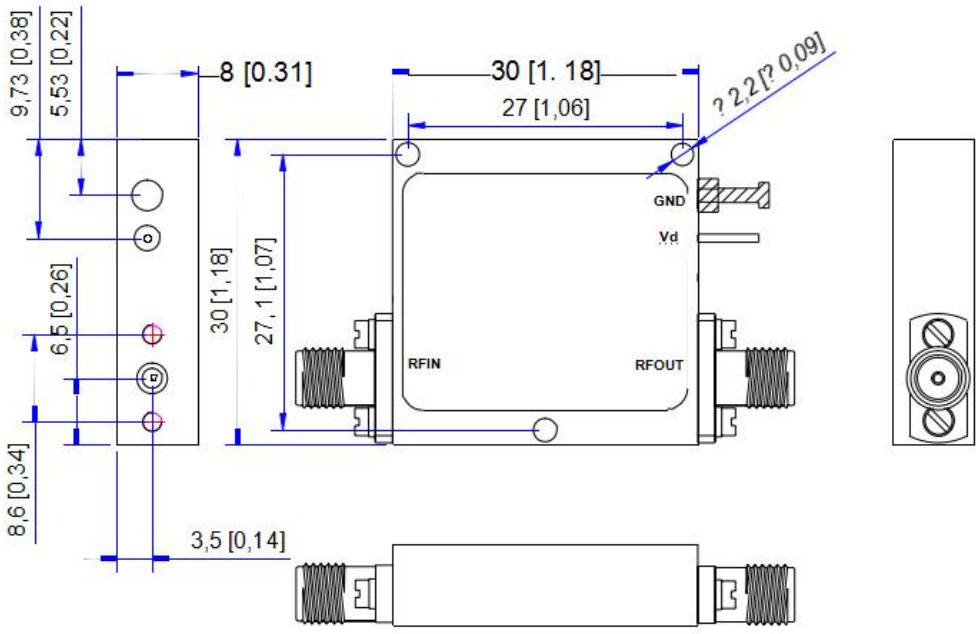
ENVIRONMENTAL SPECIFICATIONS			
Operational Temperature	-45℃~+85℃	**Vibration**	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-55℃~+125℃	**Shock**	20G for 11msc half sin wave, 3 axis both directions
Executive Standard	MIL-STD-810G	**Humidity**	95%~100%

Absolute Maximum Rating

Supply Bias Voltage	+15V
RF INPUT POWER	-10dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing

All Dimensions in mm （inches） Tolerance ±0.25 （0.01）



Heat Sink required during operation