

LOW NOISE AMPLIFIER

MLN1522.20
15-22GHz

Features

- ✓ Broad band operation from 15 to 22 GHz
- ✓ Low VSWR, unconditional stable
- ✓ Small size, low cost
- ✓ SMA female connector I/O
- ✓ Single DC power supply, internal voltage
- ✓ Operating temperature -40~+85°C
- ✓ Storage temperature -55~+125°C

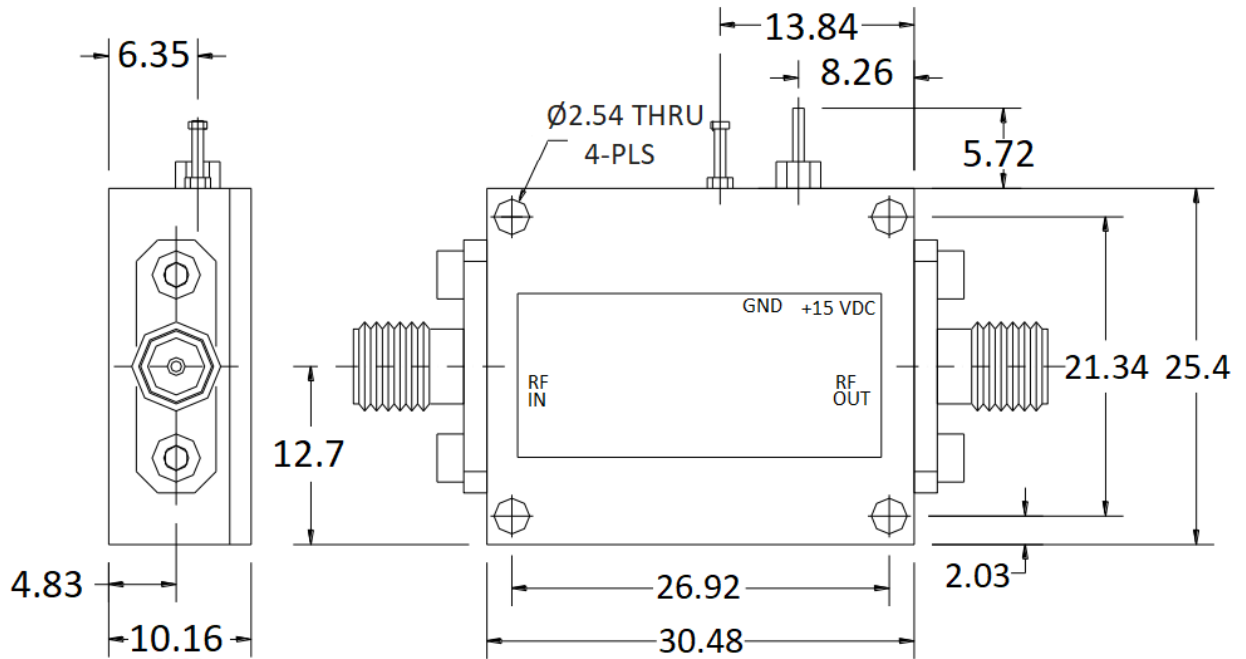


Specifications

Parameters	Minimum	Typical	Maximum
Frequency Range	15GHz		22GHz
Noise Figure @25°C		2.5dB	3.0dB
Small Signal Gain (@25°C)	18dB	20dB	22dB
Gain flatness		±0.75dB	±1.25dB
Output IP3	+15dBm	+20dBm	
P-1dB Compression Point	+10dBm	+12dBm	
Input VSWR		1.8:1	2.5:1
Output VSWR		1.8:1	2.5:1
Gain Variation		±1.0dB	
Reverse Isolation	45dB	50dB	
Non-Harmonic Spurious			-60dBc
Operating Temperature	-40°C		+85°C
Survival Temperature	-55°C		+125°C
DC Supply Current	90mA	110mA	130mA
DC Voltage		+12V	
In/Out connectors	50 ohm SMA female		

Tolerance: X= ±0.5

Outline Drawing (Unit: mm)



Absolute Maximum Ratings

Supply Bias Voltage	+13V
RF Input Power	-3 dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+85°C