

LOW NOISE AMPLIFIER

MLN2040.44
2.0GHz-4.0GHz

Features

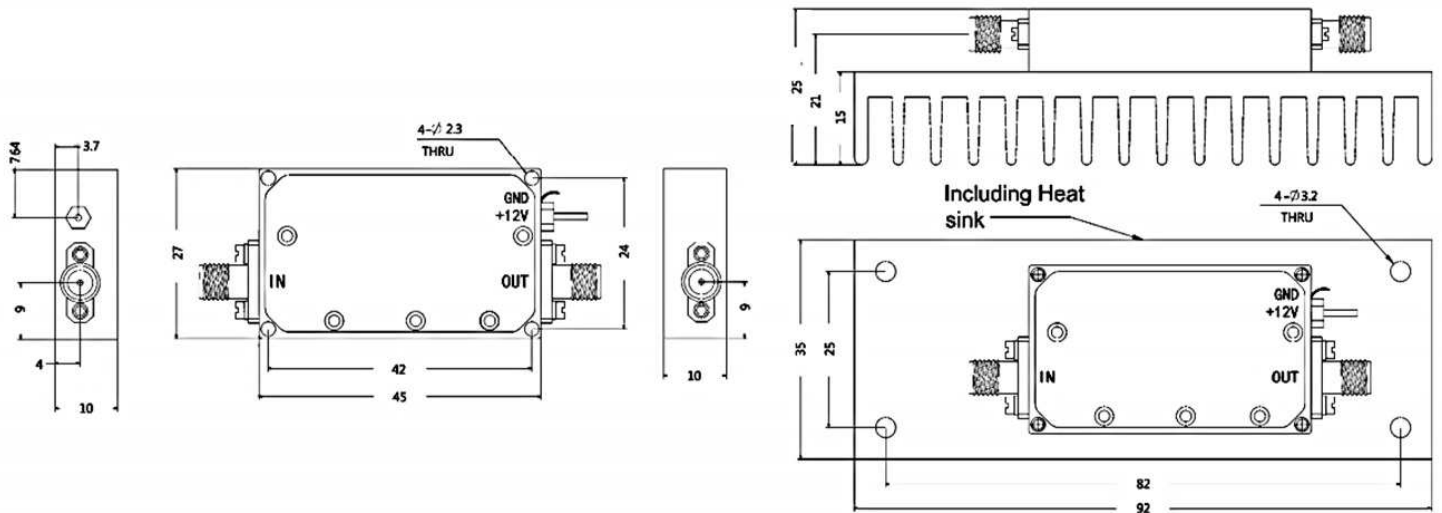
- ✓ Broad band operation from 2.0 GHz to 4.0 GHz
- ✓ Low VSWR, unconditional stable
- ✓ Small size, low cost
- ✓ SMA female connector I/O.

Specifications

Parameters	Minimum	Typical	Maximum
Frequency Range	2.0GHz		4.0GHz
Noise Figure		1.8 dB	2.5 dB
Gain	42.0 dB	44.0dB	
Output IP3		31.0dBm	
P-1dB Compression Point	+22.0dBm	+24.0dBm	
Gain flatness		±0.5 dB	±1.0 dB
Gain Variation		±1.0 dB	±1.5 dB
Input VSWR		1.5:1	2.0:1
Output VSWR		1.6:1	2.0:1
Isolation		55.0dB	
Operating Temperature	-45°C		+85°C
Survival Temperature	-55°C		+125°C
DC Power Supply Current		220 mA	300 mA
RF In/Out connectors	SMA female		

Tolerance: $\pm 0.25\text{mm}$

Mechanical Structure (mm):



Absolute Maximum Ratings

DC Voltage	+12V $\pm 10\%$
RF Input Power	-9 dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+85°C