



FEATURES

- Unconditional Stability
- RF Output Matched to 50 Ohms
- Internal DC Voltage Regulation
- Reverse Polarity Protection
- RoHS Compliant

TYPICAL APPLICATIONS

- In-Flight Entertainment
- Wireless Infrastructure
- RF Microwave and VSAT
- Military and Aerospace
- Test Instruments

ELECTRICAL SPECIFICATIONS (@ 23°C)

Parameter	Min	Max	Typ	Units
Frequency Range	19.2	21.2	-	GHz
Noise Figure	-	1.5	1.3	dB
Gain (S21)	20/30/40	-	23/36/44	dB
Gain Flatness	-	1.5	1.0	± dB
Output Power @ 1dB Compression Point (P1dB)	+10	-	+12	dBm
Input VSWR (S11)	-	2.0	1.8	-
Output VSWR (S22)	-	2.0	1.8	-
DC Supply Voltage	+4.75	+5.25	+5	VDC
DC Supply Current*	-	180	120	mA

*Current listed is for 30 dB gain model, subtract 50 mA for the 20 dB gain model or add 50 mA for the 40 dB gain model

Absolute Maximum Ratings

Parameter	Rating
DC Supply Voltage	+5.5 V
RF Input Power	+10 dBm
Operating Temperature	-55°C to +85°C
Non-Operating Temperature	-65°C to +125°C
RF Port Coupling (In/Out)	AC Coupled / AC Coupled

Mechanical Specifications

Parameter	Value
Length	2.60 in [66.0 mm]
Width	1.20 in [30.5 mm]
Height	0.88 in [22.4 mm]
Connectors (In/Out)	WR42 / SMA(F)
Approx. Weight	2.2 oz [62.4 g]

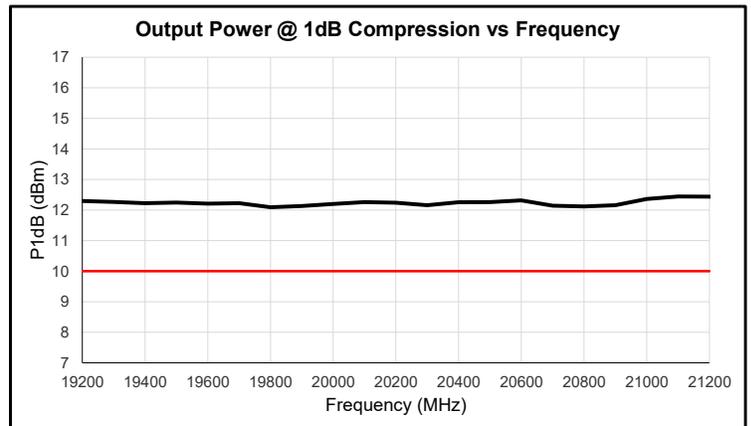
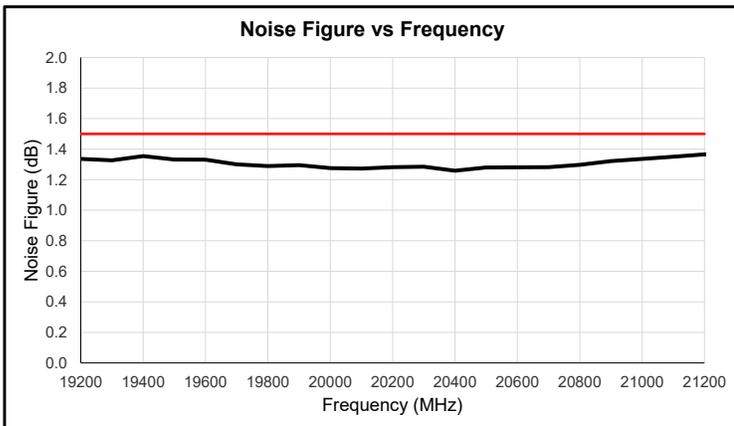
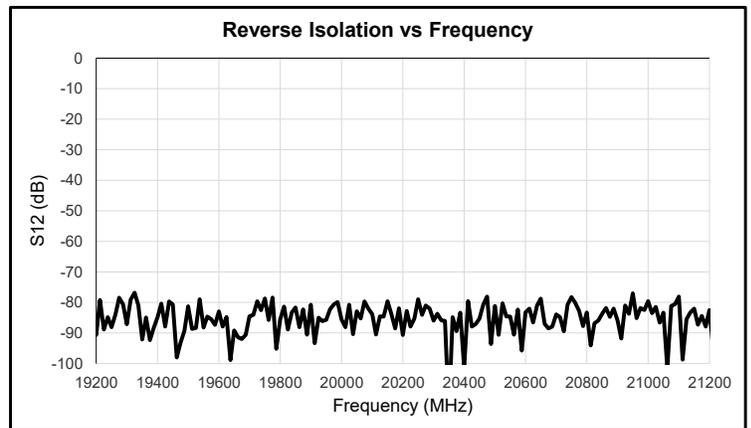
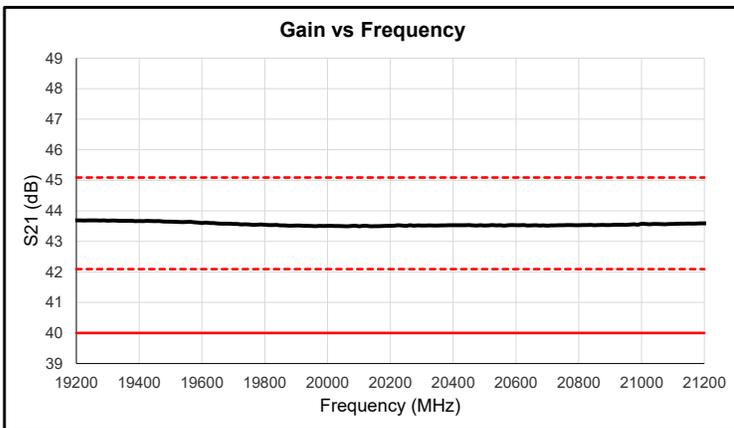
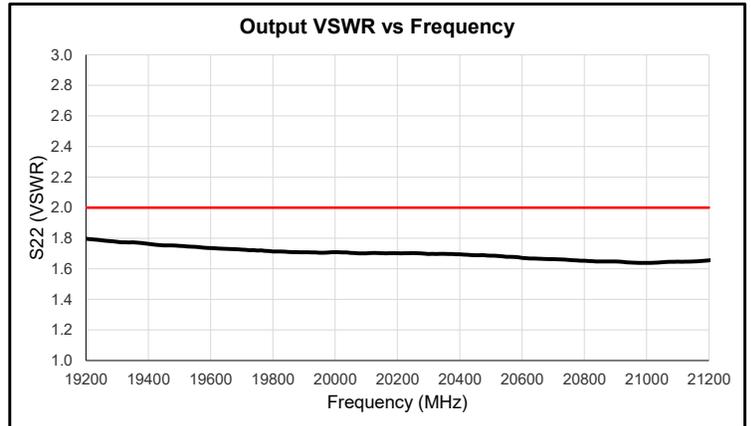
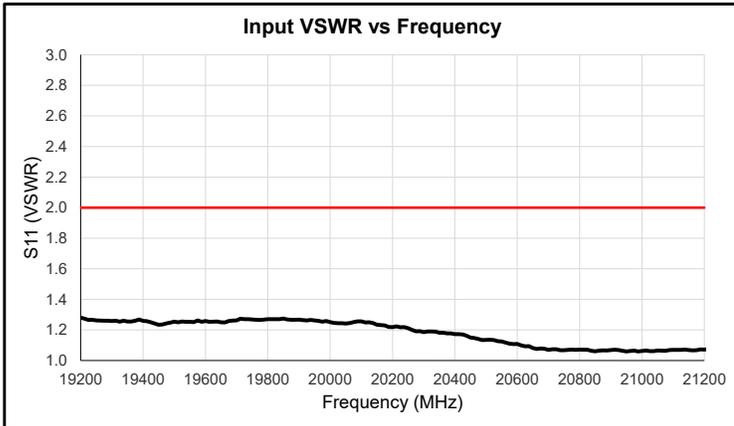
The information above is relative to the sale of a COTS product as depicted. For information regarding other amplifier features not listed for this specific LNA model, please review our product overview brochure at the following link or contact your local representative.
[LNA Series Brochure](#)

The material presented in this datasheet was current at the time of publication. Narda-MITEQ's continuing product improvement program makes it necessary to reserve the right to change our mechanical and electrical specifications without notice. If either of these parameters is critical, please contact the factory to verify that the information is current.

This material consists of Narda-MITEQ general capabilities information and does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations (EAR) Part 734.7-11. D-405/05.01.18



Typical Performance @ 23°C [40 dB Gain Model]

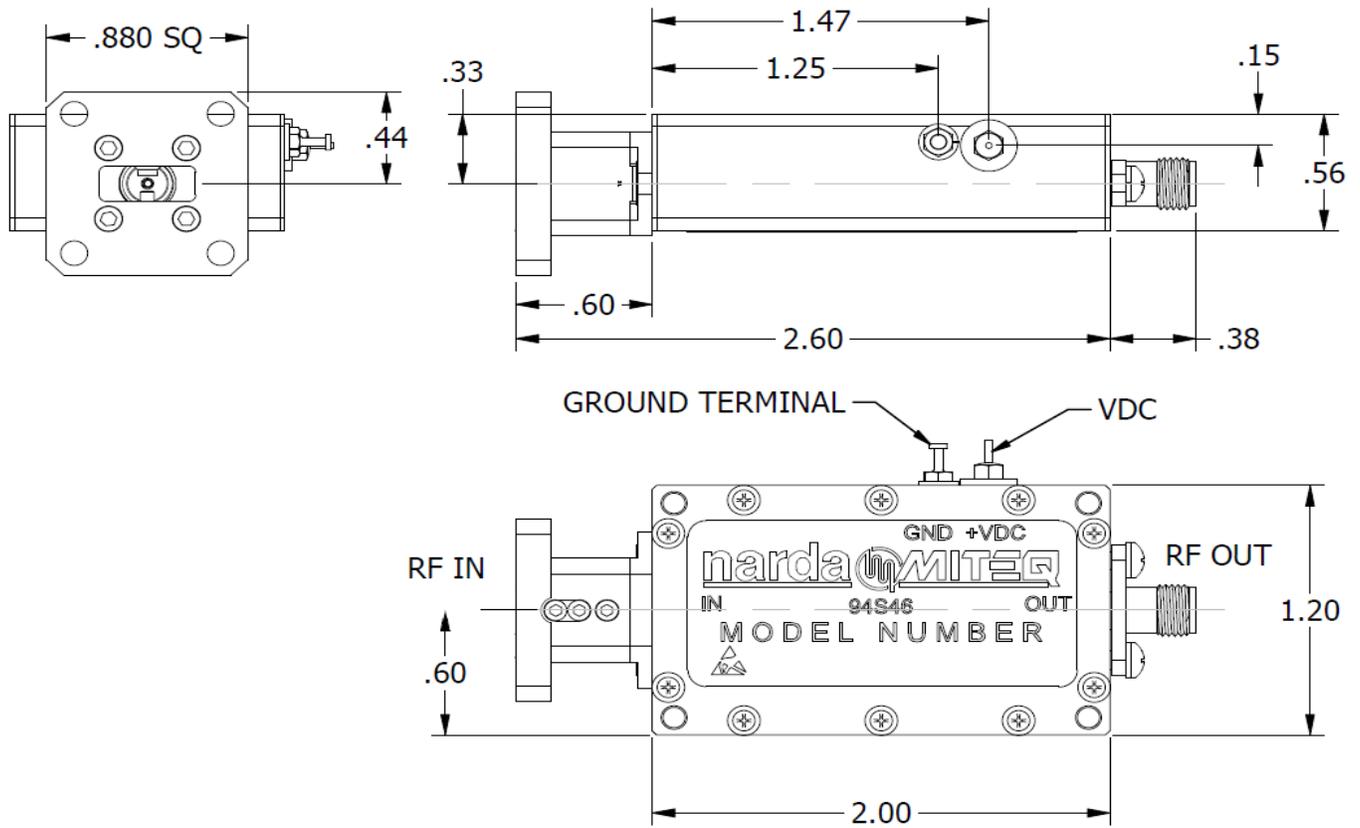


S2P file may be available upon request

LOW NOISE AMPLIFIER, 19.2 - 21.2 GHz
LNAW-XX-19202120-15-10P

Revision 1.0

Outline (Reference Drawing 229603)



STEP file may be available upon request