KU LNA 142 AH - Super Low Noise Preamplifier

Technical Specifications

Electrical Specifications				
Parameter	Min.	Typ.	Max.	Units
Frequency	1350		1450	MHz
Gain		33		dB
Gain Flatness		±1		dB
Noise Figure		0.4		dB
Input Return Loss (S11)		5		dB
Output Power at 1 dB Compression (P1dB)		17.5		dBm
Output Third Order Intercept (IP3)		25		dBm
DC Supply Voltage	9		15	V
Supply Current		80		mA

Maximum Ratings	
Parameter	Ratings
Operating Temperature	-40..65°C
DC Voltage	16 V
Input RF Power	0 dBm

Permanent damage may occur if any of these limits are exceeded.

Noise figure specified at 18°C, will increase with higher temperature.

Link to the product page online.

CE

Mechanical Specifications	
Input Connector	N-male, 50 ohms
Output Connector	N-female, 50 ohms
Case	milled aluminium
Dimensions (L x W x H)	70 × 30 × 22 mm
Weight	140 g



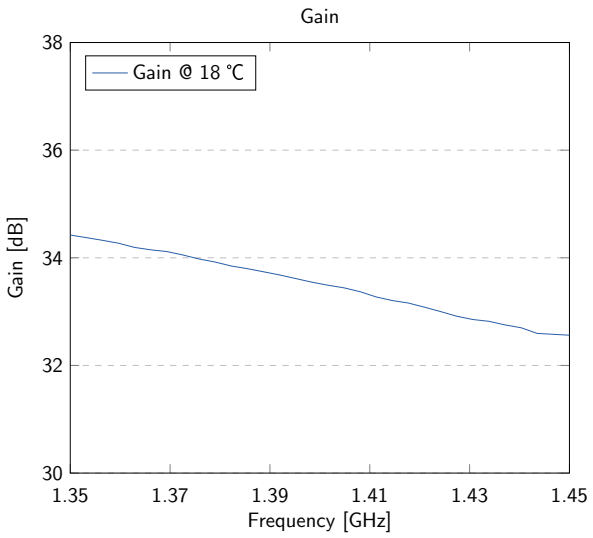
Applications:
Communication systems
Measurement and laboratory equipment

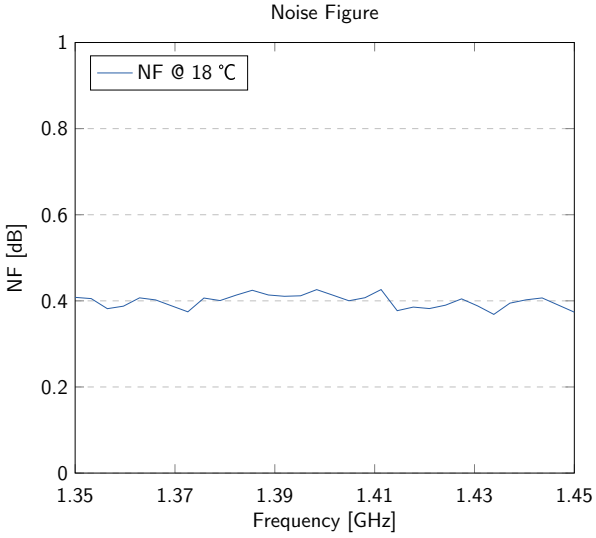
Fulfilled Standards:
EMC directive 2014/30/EU
Low voltage directive 2014/35/EU
RoHS directive 2011/65/EU

Features:
Large bandwidth
Solder pin for direct power supply
Reverse polarity protection

Typical Performance Data and Curves

(DC Voltage = 12V, DC Current = 80mA)





Notice

Additional protection against moisture is essential in case of outdoor installation.
Installation in a waterproof case is recommended.

Test Certificate

Sig.: _____ QS: _____ SN: _____

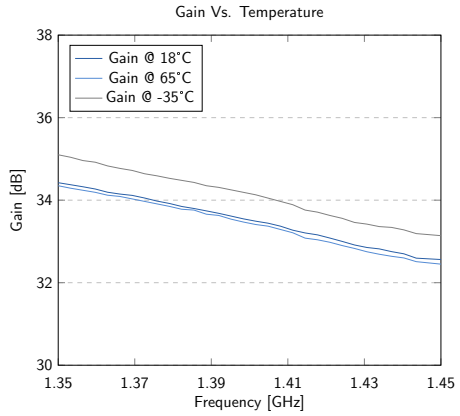
Kuhne electronic GmbH
Scheibenacker 3
95180 Berg - Germany
Telefon: +49(0)9293/800640
E-Mail: info@kuhne-electronic.de

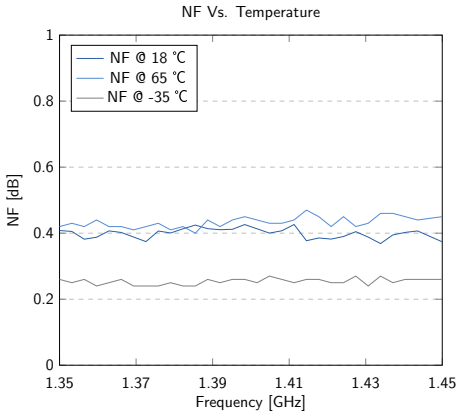
KUHNE electronic
MICROWAVE COMPONENTS

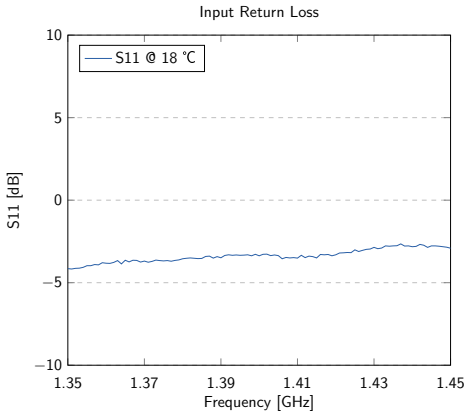
KU LNA 142 AH - Super Low Noise Preamplifier

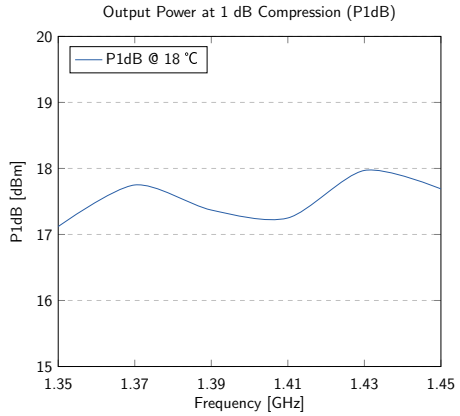
Typical Curves

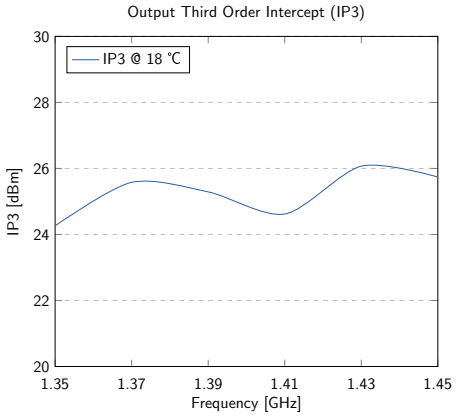
(DC Voltage = 12V, DC Current = 80mA)

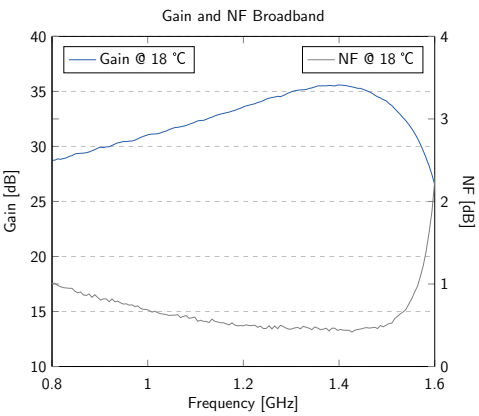












Typical Data

(DC Voltage = 12V, DC Current = 80mA)

Frequency (MHz)	VSWR	P1dB (dBm)	IP3 (dBm)	Gain (dB)	Noise Figure (dB)
1350	4.26	17.1	24.3	34.5	0.41
1370	4.77	17.8	25.6	34.2	0.39
1390	5.04	17.4	25.3	33.6	0.40
1410	5.02	17.3	24.6	33.3	0.39
1430	6.13	18.0	26.1	33.0	0.37
1450	6.05	17.7	25.7	32.4	0.38

Outline Drawings

(Unit: mm)

