KU LNA 133 BH - Low Noise Preamplifier

Technical Specifications

Electrical Specifications				
Parameter	Min.	Typ.	Max.	Units
Frequency	1200		1400	MHz
Gain	30			dB
Gain Flatness		±1.5		dB
Noise Figure		0.7	0.8	dB
Input Return Loss (S11)	15			dB
Output Power at 1 dB Compression (P1dB)		17.5		dBm
Output Third Order Intercept (IP3)		28		dBm
DC Supply Voltage		12		V
Supply Current		100		mA

Maximum Ratings	
Parameter	Ratings
Operating Temperature	-40..65°C
DC Voltage	15 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	SMA-female, 50 ohms
Output Connector	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (L x W x H)	73 × 30 × 20 mm
Weight	80 g



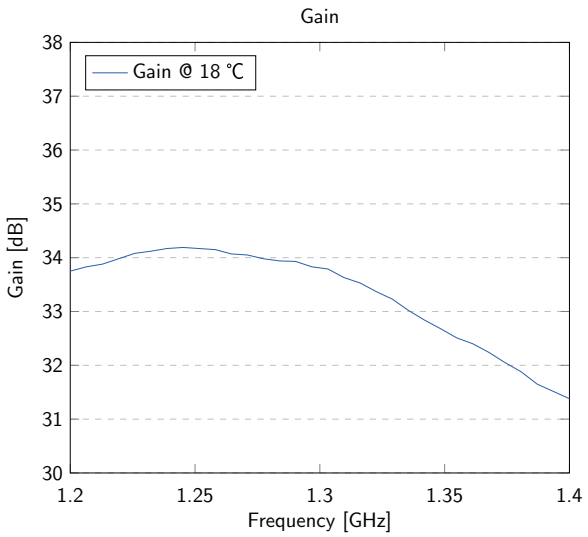
Applications:
Communication systems
Measurement and laboratory equipment
Radar receiving systems

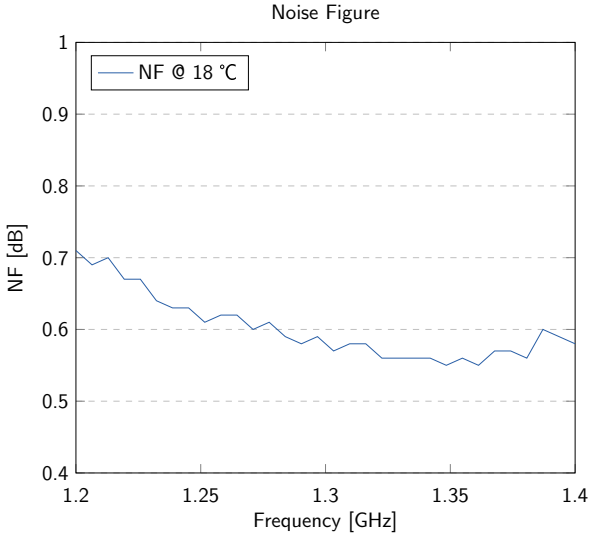
Fulfilled Standards:
EMC directive 2014/30/EU
Low voltage directive 2014/35/EU
RoHS directive 2011/65/EU

Features:
Reverse polarity protection
Solder pin for direct power supply
Remote power supply via output connector

Typical Performance Data and Curves

(DC Voltage = 12V, DC Current = 100mA)





Notice

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

Test Certificate

Sig.: _____ QS: _____ SN: _____

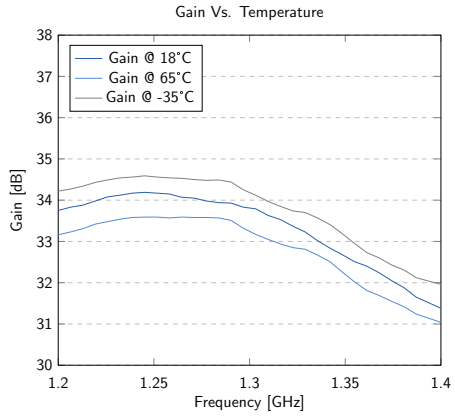
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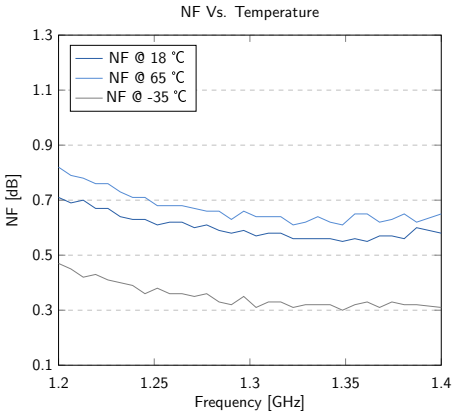
KUHNE electronic
MICROWAVE COMPONENTS

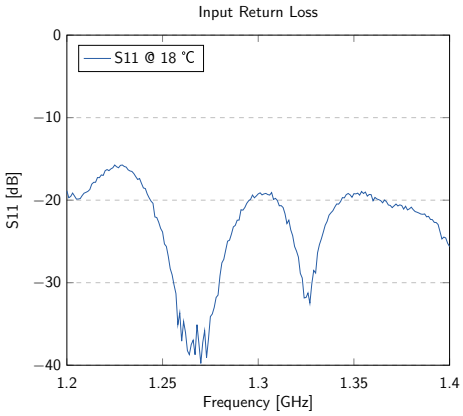
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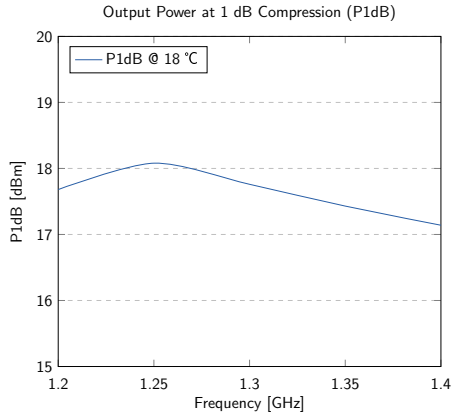
Typical Curves

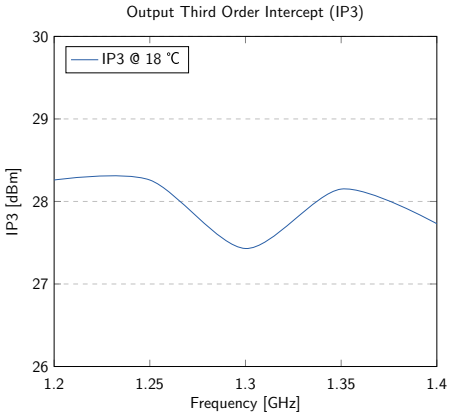
(DC Voltage = 12V, DC Current = 100mA)

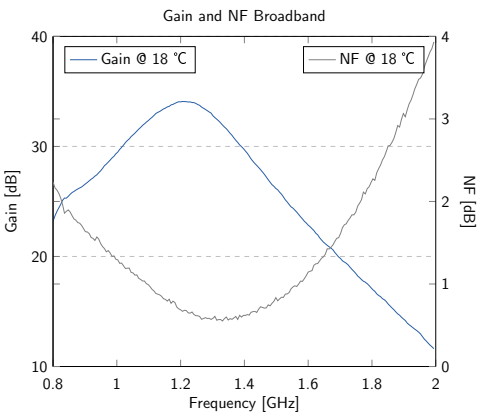












Typical Data

(DC Voltage = 12V, DC Current = 100mA)

Frequency (MHz)	VSWR	P1dB (dBm)	IP3 (dBm)	Gain (dB)	Noise Figure (dB)
1200	1.26	17.7	28.3	33.7	0.71
1250	1.14	18.1	28.3	34.2	0.61
1300	1.25	18.2	27.4	33.8	0.58
1350	1.05	17.4	28.2	32.5	0.56
1400	1.11	17.1	27.7	31.4	0.58

Outline Drawings

(Unit: mm)

