KU LNA 220240 A - Super Low Noise Preamplifier

Technical Specifications

Electrical Specifications				
Parameter	Min.	Typ.	Max.	Units
Frequency	2200		2400	MHz
Gain		58		dB
Gain Flatness		±2		dB
Noise Figure			0.4	dB
Input Return Loss (S11)		5		dB
Output Power at 1 dB Compression (P1dB)		19		dBm
Output Third Order Intercept (IP3)		27		dBm
DC Supply Voltage	9		15	V
Supply Current		110		mA

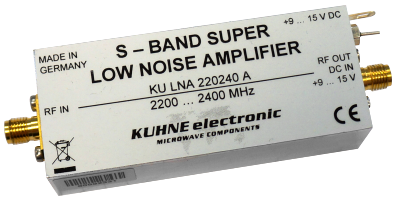
Maximum Ratings	
Parameter	Ratings
Operating Temperature	-40..65°C
DC Voltage	16 V
Input RF Power	0 dBm

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.

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	90 g



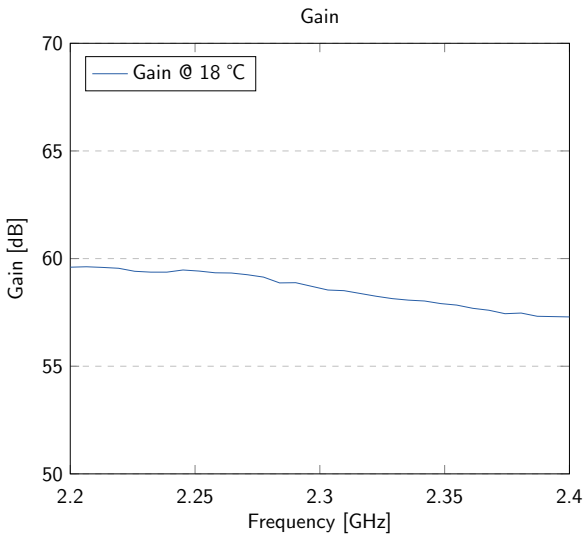
Applications:
Communication systems
Measurement and laboratory equipment
Satellite ground station

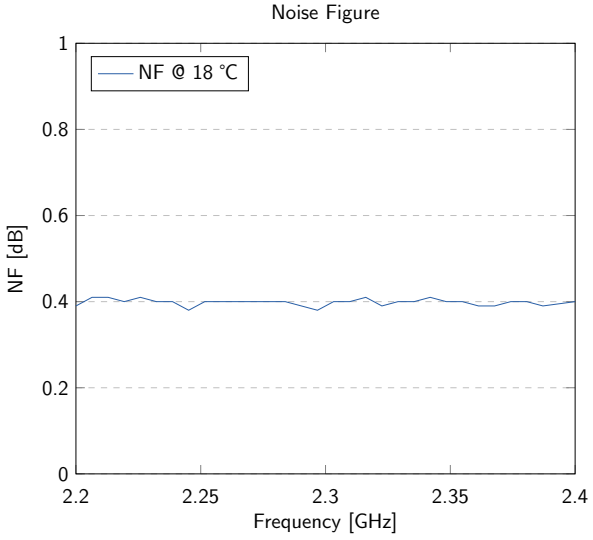
Fulfilled Standards:
EMC directive 2014/30/EU
RoHS directive 2011/65/EU

Features:
High IP3
Solder pin for direct power supply
Remote power supply via output connector
Reverse polarity protection

Typical Performance Data and Curves

(DC Voltage = 12V, DC Current = 110mA)





Notice

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

Test Certificate

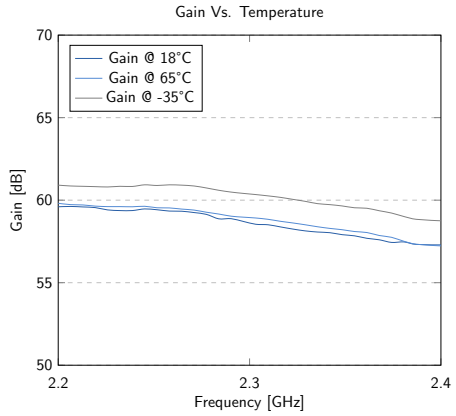
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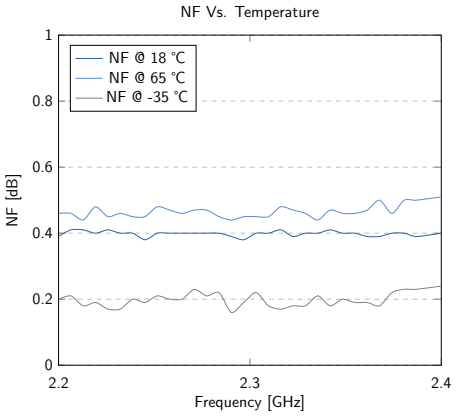
Kuhne electronic GmbH
Scheibenacker 3
95180 Berg - Germany
Telefon: +49(0)9293/800640
E-Mail: info@kuhne-electronic.de

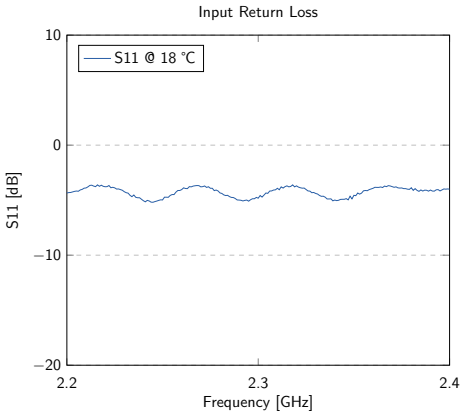
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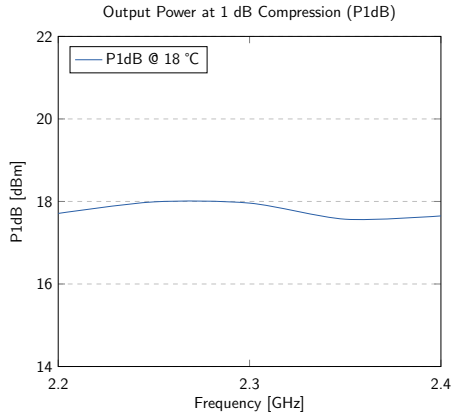
Typical Curves

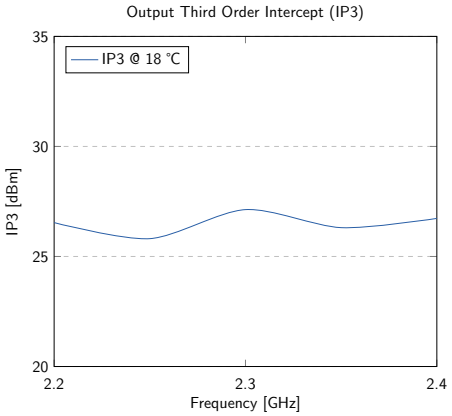
(DC Voltage = 12V, DC Current = 110mA)

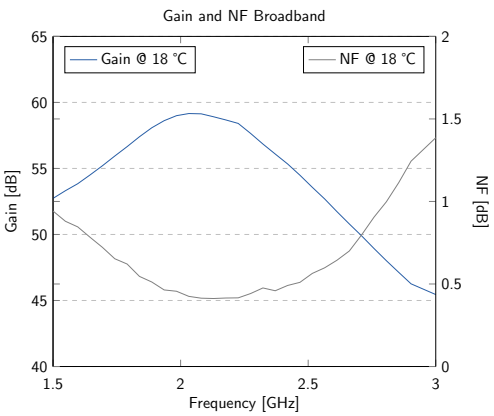












Typical Data

(DC Voltage = 12V, DC Current = 110mA)

Frequency (MHz)	VSWR	P1dB (dBm)	IP3 (dBm)	Gain (dB)	Noise Figure (dB)
2200	2.76	17.7	26.5	59.6	0.39
2250	3.50	18.0	25.8	59.4	0.39
2300	4.29	18.0	27.1	58.5	0.40
2350	4.73	17.6	26.3	57.9	0.40
2400	4.75	17.7	26.7	57.3	0.40

Outline Drawings

(Unit: mm)

