

KU LNA 220240 A - 1006 – Super Low Noise Preamplifier

Technical Specifications

Electrical Specifications

Parameter	Min.	Typ.	Max.	Unit
Frequency	2200		2400	MHz
Gain		58		dB
Gain Flatness		±1		dB
Noise Figure		0.4		dB
Input Reflection Coefficient (S11)		-5		dB
Output Reflection Coefficient (S22)		-17		dB
Output Power at 1 dB Compression (P1dB)		17		dBm
Output Third Order Intercept (IP3)		26		dBm
DC Supply Voltage	9		15	V
Supply Current		110		mA

Mechanical Specifications

Input Connector	N male
Output Connector	N female
DC Connector	SMA female
Case	milled aluminium
Dimensions (L x W x H)	73 mm x 30 mm x 22 mm
Weight	140 g

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.



Applications:

Communication systems
Measurement and laboratory equipment
Satellite ground station

Fulfilled Standards:

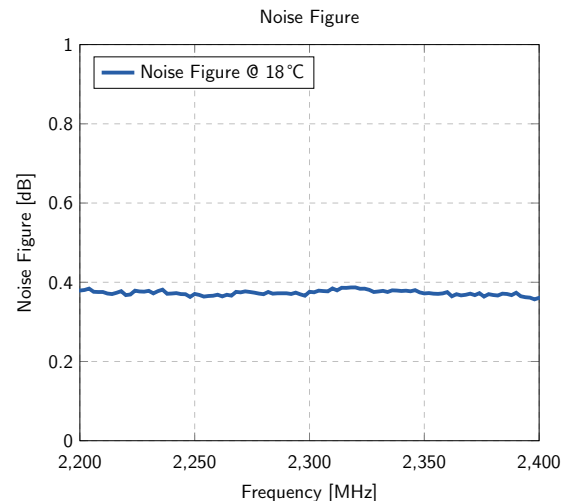
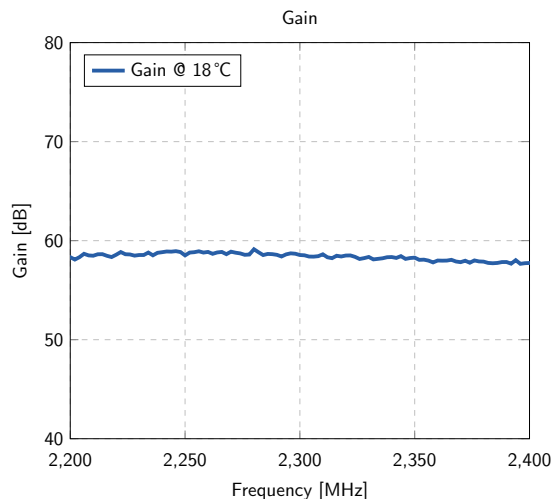
EMC directive 2014/30/EU
Low voltage directive 2014/35/EU
RoHS directive 2011/65/EU

Features:

High IP3
Direct power supply via SMA
Remote power supply via output connector
Reverse polarity protection

Typical Performance Data and Curves

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



Notice

Airtight and splash-proof case, designed for 30 mbar air pressure.

Test Certificate

Sig.: _____

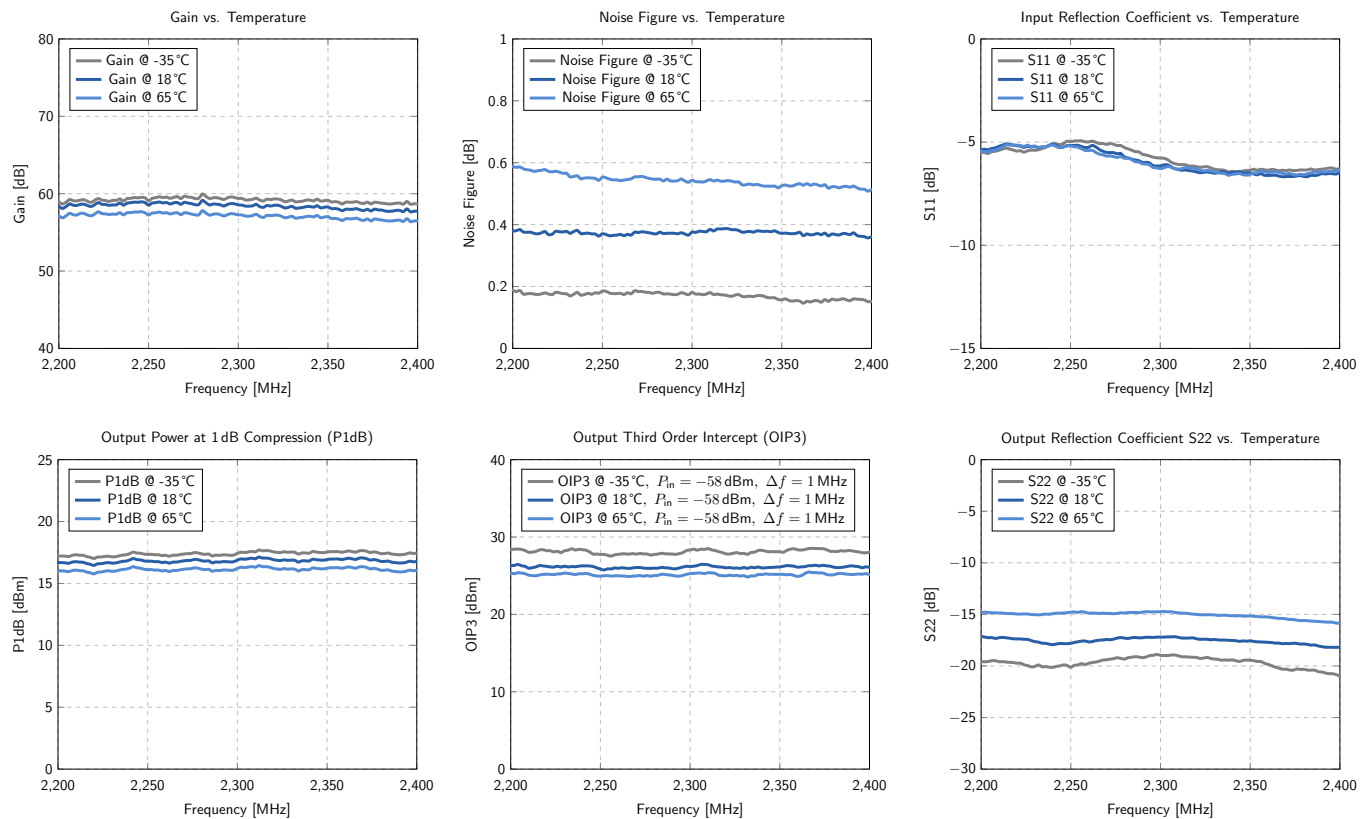
QS: _____

SN: _____

KU LNA 220240 A - 1006 – Super Low Noise Preamplifier

Typical Curves

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



Typical Data

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

Frequency [MHz]	Gain [dB]	Noise Figure [dB]	S11 [dB]	S22 [dB]	P1dB [dBm]	IP3 [dBm]
2200	58.3	0.38	-5.4	-17.1	16.7	26.2
2250	58.5	0.37	-5.2	-17.8	16.8	25.8
2300	58.5	0.38	-6.2	-17.2	16.9	26.1
2350	58.3	0.37	-6.5	-17.6	16.9	26.0
2400	57.7	0.36	-6.5	-18.2	16.8	25.9

KU LNA 220240 A - 1006 – Super Low Noise Preamplifier

Outline Drawings

(Unit: mm)

