

# KU LNA BB 050700 B - Low Noise Broadband Preamplifier

## Technical Specifications

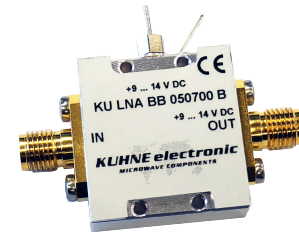
Electrical Specifications				
Parameter	Min.	Typ.	Max.	Units
Frequency	500		7000	MHz
Gain	18	21		dB
Gain Flatness		±2		dB
Noise Figure		1.6	2	dB
Input Return Loss (S11)	10			dB
Output Power at 1 dB Compression (P1dB)		20		dBm
Output Third Order Intercept (IP3)	27	30		dBm
DC Supply Voltage	9		14	V
Supply Current		80		mA

Maximum Ratings	
Parameter	Ratings
Operating Temperature	-40..65°C
DC Voltage	14 V
Input RF Power	16 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)	23 x 24.5 x 9 mm
Weight	15 g

### Applications:

Communication systems  
Measurement and laboratory equipment

### Fulfilled Standards:

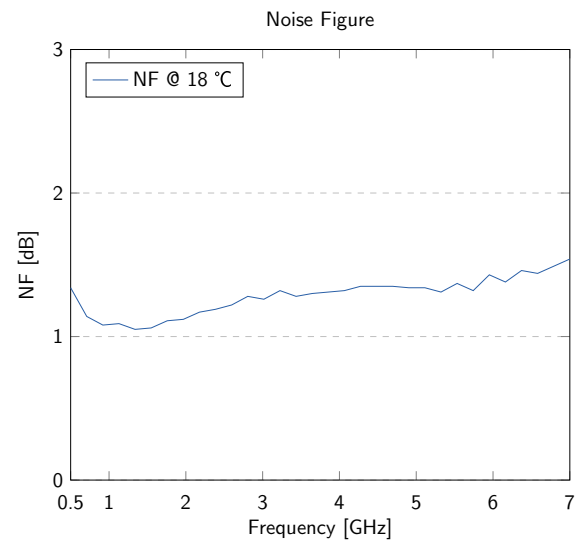
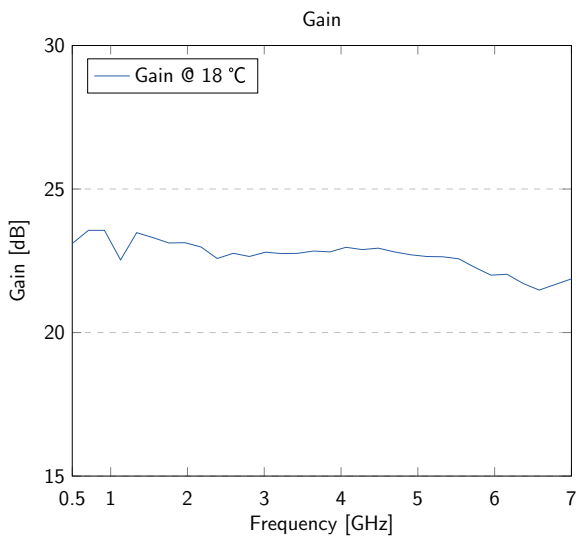
EMC directive 2014/30/EU  
Low voltage directive 2014/35/EU  
RoHS directive 2011/65/EU

### 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.: \_\_\_\_\_

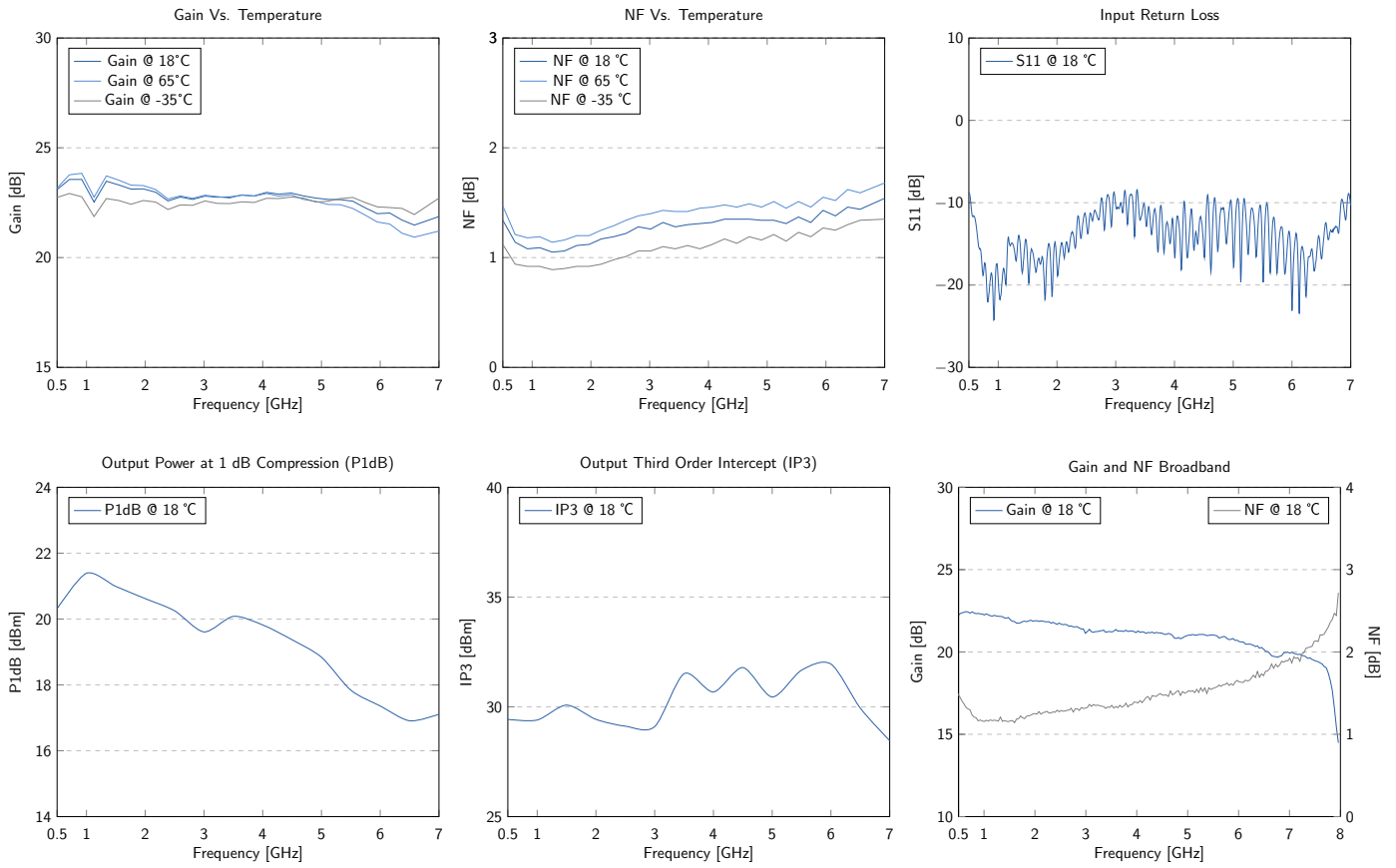
QS: \_\_\_\_\_

SN: \_\_\_\_\_

# KU LNA BB 050700 B - Low Noise Broadband 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)
500	2.12	20.3	29.4	23.1	1.34
1000	1.24	21.4	29.4	22.5	1.09
2000	1.74	20.6	29.4	23.1	1.29
3000	1.87	19.6	29.1	22.8	1.26
4000	1.36	19.8	30.7	22.8	1.31
5000	1.33	18.8	30.5	22.7	1.34
6000	1.15	18.2	32.0	22.0	1.43
7000	1.88	17.1	28.5	21.9	1.54

# KU LNA BB 050700 B - Low Noise Broadband Preamplifier

## Outline Drawings

(Unit: mm)

