

# KU LNA BB 050700 A - Low Noise Broadband Preamplicifier

## Technical Specifications

Electrical Specifications				
Parameter	Min.	Typ.	Max.	Units
Frequency	500		7000	MHz
Gain	37	40		dB
Gain Flatness		±2		dB
Noise Figure		1.5	1.9	dB
Input Return Loss (S11)	7	10		dB
Output Power at 1 dB Compression (P1dB)		20		dBm
Output Third Order Intercept (IP3)		30		dBm
DC Supply Voltage	9		15	V
Supply Current		160		mA

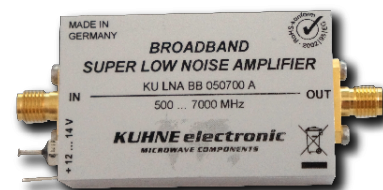
Mechanical Specifications	
Input Connector	SMA-female, 50 ohms
Output Connector	SMA-female, 50 ohms
Case	milled aluminium
Dimensions (L x W x H)	50 x 30 x 17 mm
Weight	50 g

Maximum Ratings	
Parameter	Ratings
Operating Temperature	-40..65°C
DC Voltage	16 V
Input RF Power	-3 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

### Fulfilled Standards:

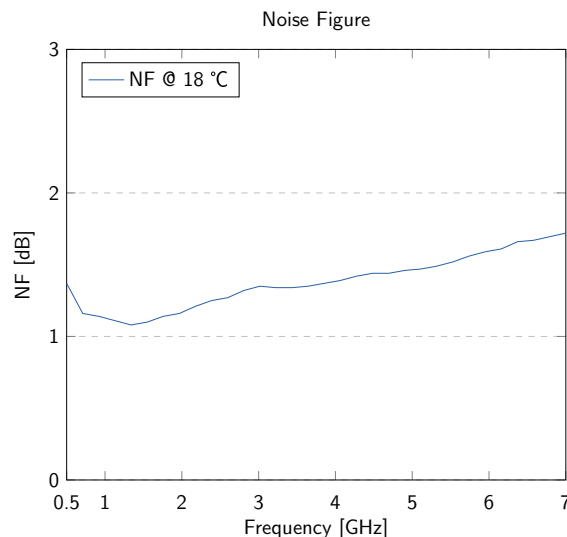
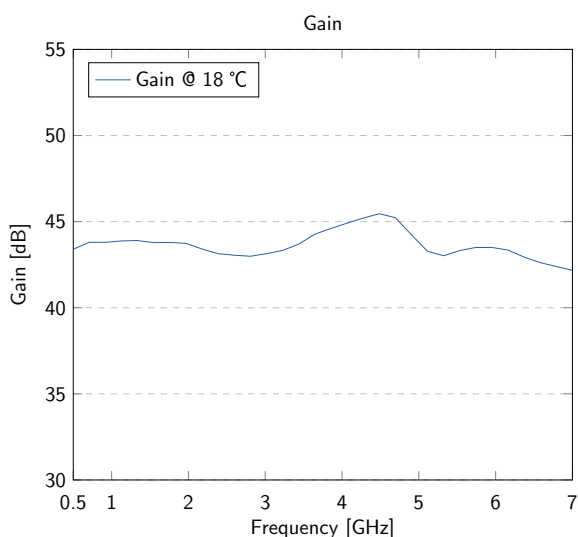
EMC directive 2014/30/EU  
Low voltage directive 2014/35/EU  
RoHS directive 2011/65/EU

### Features:

Large bandwidth  
Solder pin for direct power supply  
Reverse polarity protection  
Remote power supply via output

## Typical Performance Data and Curves

(DC Voltage = 12V, DC Current = 160mA)



## Notice

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

## Test Certificate

Sig.: \_\_\_\_\_

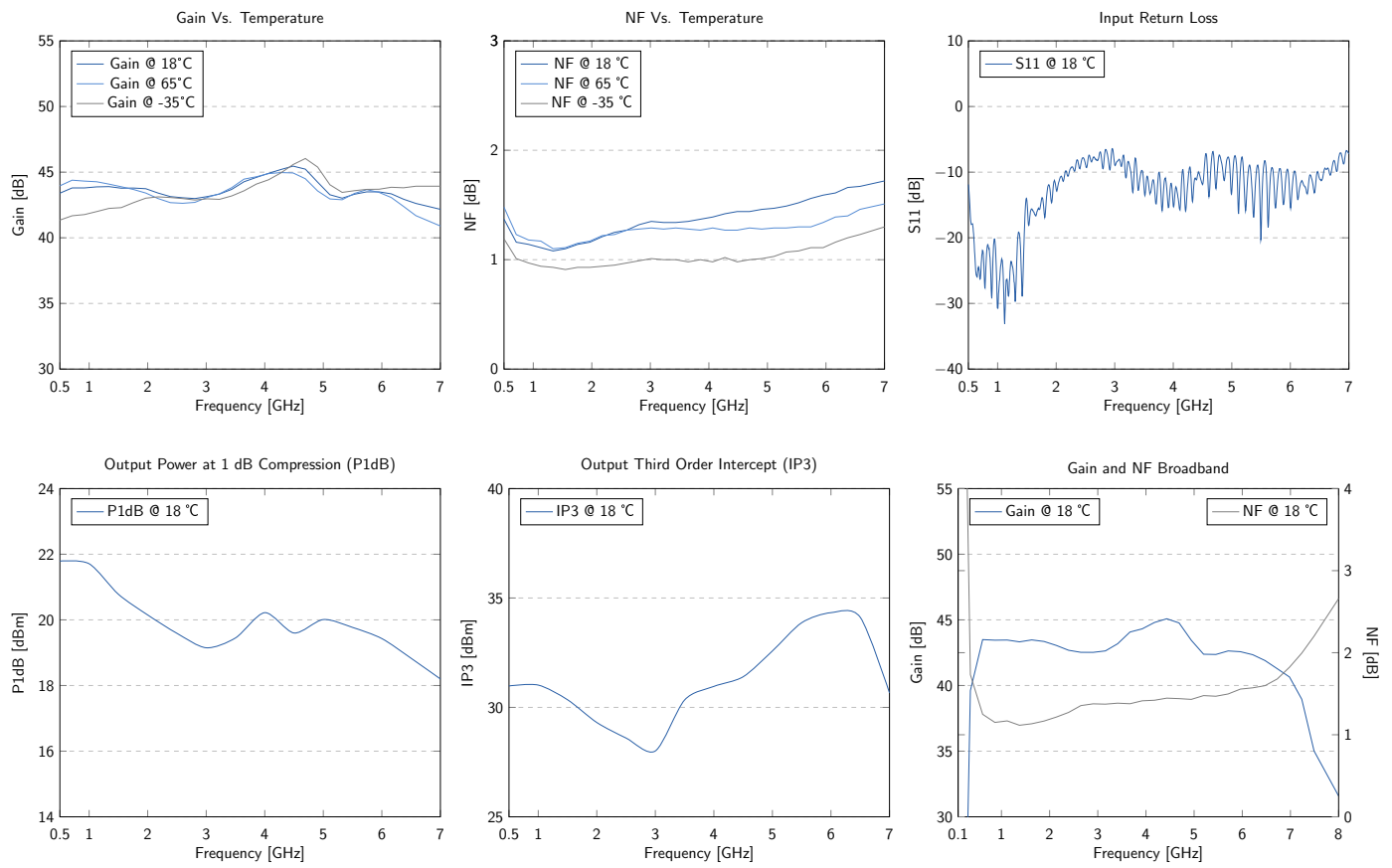
QS: \_\_\_\_\_

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## Typical Curves

(DC Voltage = 12V, DC Current = 160mA)



## Typical Data

(DC Voltage = 12V, DC Current = 160mA)

Frequency (MHz)	VSWR	P1dB (dBm)	IP3 (dBm)	Gain (dB)	Noise Figure (dB)
500	1.68	21.8	31.0	42.7	1.47
1000	1.06	21.7	31.0	43.0	1.15
2000	1.61	20.2	29.3	42.8	1.22
3000	2.12	19.2	28.0	41.7	1.28
4000	1.42	20.2	31.0	43.8	1.30
5000	1.58	20.0	32.6	43.3	1.38
6000	1.42	19.4	34.3	44.0	1.51
7000	2.55	18.2	30.7	42.7	1.78

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## Outline Drawings

(Unit: mm)

