KU LNA 163 BH-TM - Super Low Noise Preamplifier

Technical Specifications

Electrical Specifications				
Parameter	Min.	Typ.	Max.	Units
Frequency	1500		1700	MHz
Gain	31			dB
Gain Flatness		±0.7		dB
Noise Figure		0.7	0.8	dB
Input Return Loss (S11)		18		dB
Output Power at 1 dB Compression (P1dB)		18		dBm
Output Third Order Intercept (IP3)		30		dBm
DC Supply Voltage	9		15	V
Supply Current		100		mA

Maximum Ratings	
Parameter	Ratings
Operating Temperature	-40..85°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.

CE

Mechanical Specifications	
Input Connector	N-female, 50 ohms
Output Connector	N-female, 50 ohms
DC Power Supply Connector	3-pin connector MS3102E
Case	water resistant case incl. V2A mounting clamp
Dimensions (L x W x H)	145 × 70 × 98 mm
Weight	300 g



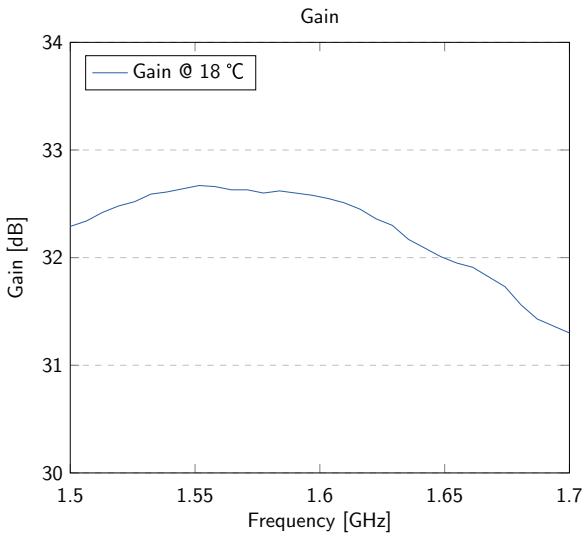
Applications:
Communication systems
Measurement and laboratory equipment
Radar receiving systems

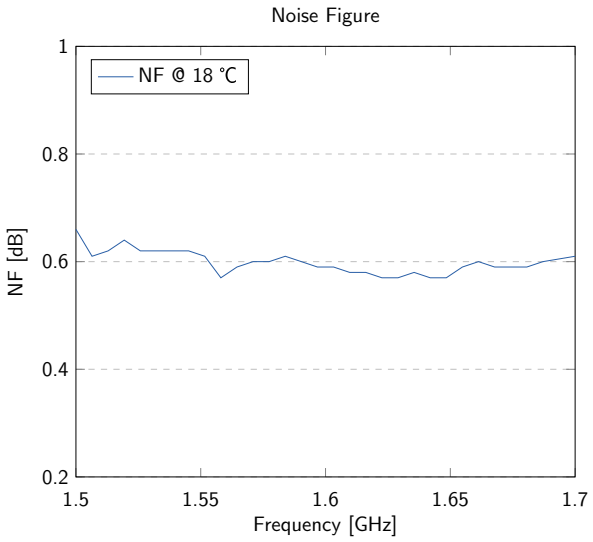
Fulfilled Standards:
EMC directive 2014/30/EU
Low voltage directive 2014/35/EU
RoHS directive 2011/65/EU

Features:
High IP3
Remote power supply via output
Reverse polarity protection

Typical Performance Data and Curves

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





Notice

Mating connector type is Amphenol MS3106E10SL-3S, not part of delivery

Test Certificate

Sig.: _____ QS: _____ SN: _____

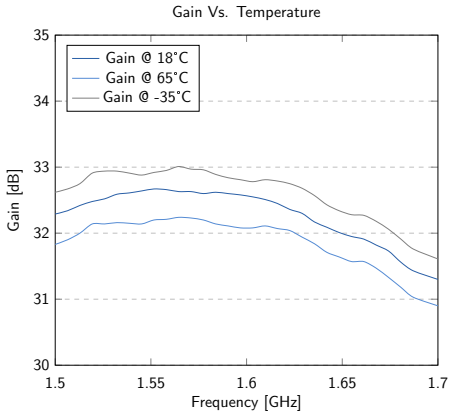
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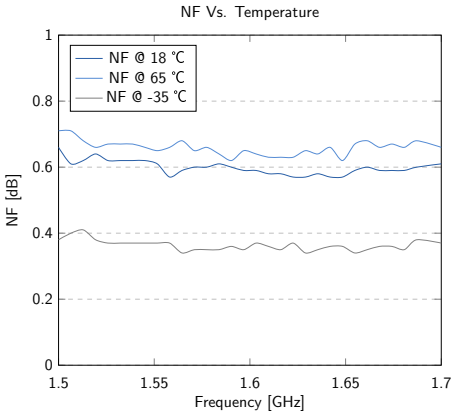
KUHNE electronic
MICROWAVE COMPONENTS

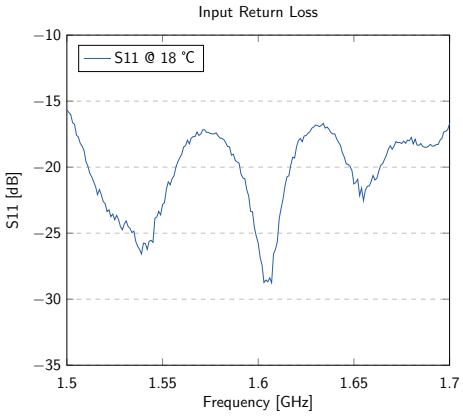
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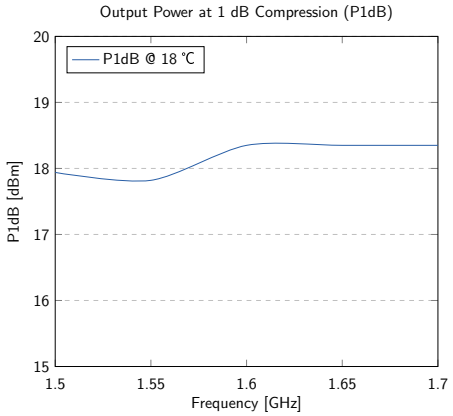
Typical Curves

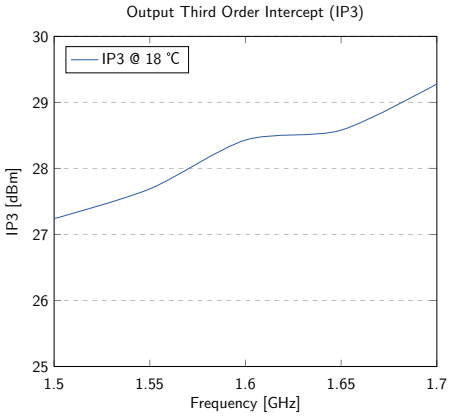
(DC Voltage = 12V, DC Current = 100mA)

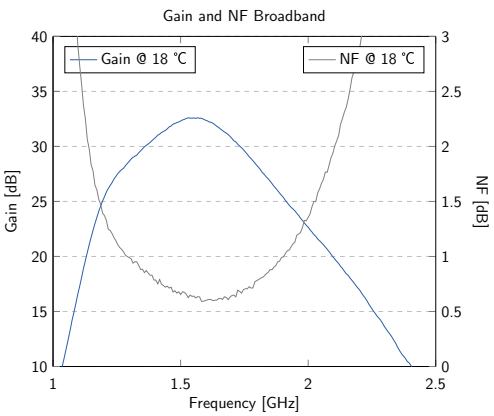












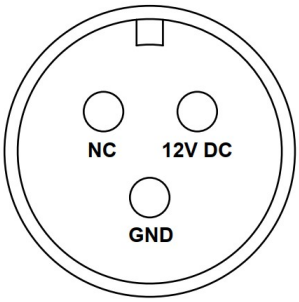
Typical Data

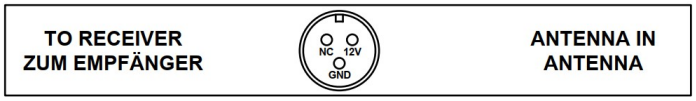
(DC Voltage = 12V, DC Current = 100mA)

Frequency (MHz)	VSWR	P1dB (dBm)	IP3 (dBm)	Gain (dB)	Noise Figure (dB)
1500	1.40	17.9	27.2	32.3	0.66
1550	1.16	17.8	27.7	32.7	0.61
1600	1.11	18.4	28.4	32.6	0.59
1650	1.19	18.4	28.6	32.0	0.57
1700	1.34	18.4	29.3	31.3	0.61

Pin Description

3-pin connector MS3102E series for power supply





Outline Drawings

(Unit: mm)

