KU LNA BB 0012650 A – Low Noise Broadband Preamplifier

Technical Specifications

Electrical Specifications				
Parameter	Min.	Typ.	Max.	Units
Frequency	0.01		26.5	GHz
Gain	25	30		dB
Gain Flatness		±2		dB
Noise Figure	2		7	dB
Input Reflection Coefficient (S11)			-8	dB
Output Reflection Coefficient (S22)			-8	dB
Output Power at 1 dB Compression (P1dB)	10			dBm
Output Third Order Intercept (IP3)	20			dBm
DC Supply Voltage	12		36	V
Supply Current		220		mA

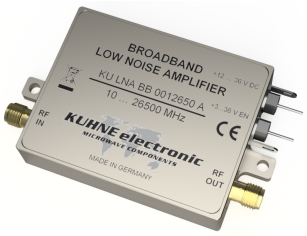
Maximum Ratings	
Parameter	Ratings
Operating Temperature	-40..65 °C
DC Voltage	36 V
Input RF Power	10 dBm

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 Ω
Output Connector	SMA-female 50 Ω
Case	milled aluminium
Dimensions (L x W x H)	56 mm × 44 mm × 12 mm
Weight	74 g



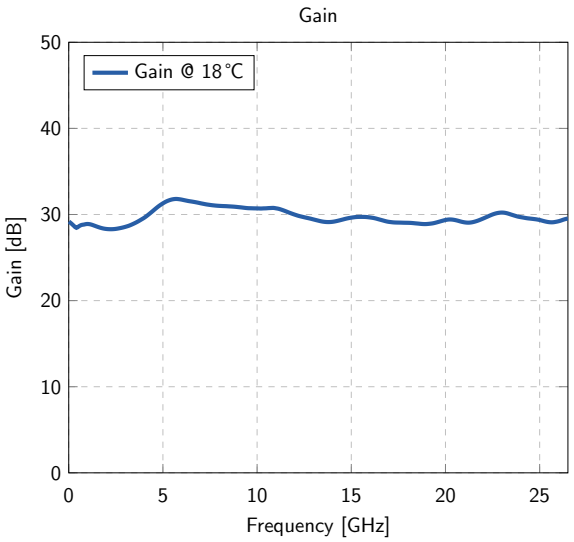
Applications:
Analog & digital transmission systems
Measurement and labratory equipment
Monitoring systems

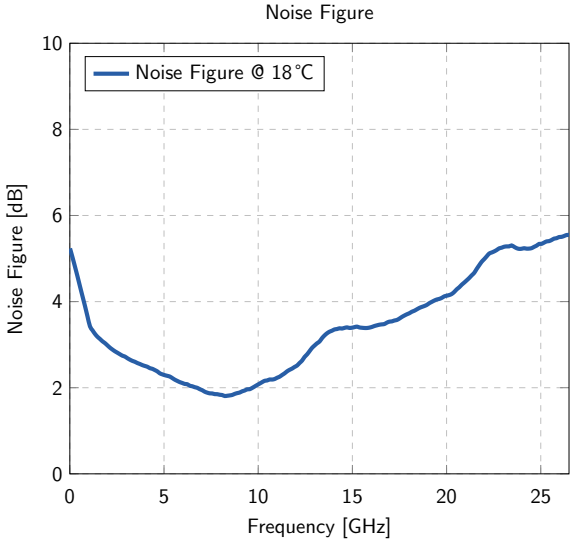
Fulfilled Standards:
EMC directive 2014/30/EU
Low voltage directive 2014/35/EU
RoHS directive 2011/65/EU

Features:
Ultra-high bandwidth
Reverse polarity protection
Small package dimensions
Solder pin for direct power supply
Low-power enable pin

Typical Performance Data and Curves

(DC Voltage = 12 V, DC Current = 220 mA)





Notice

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

Test Certificate

Sig.: _____ QS: _____ SN: _____

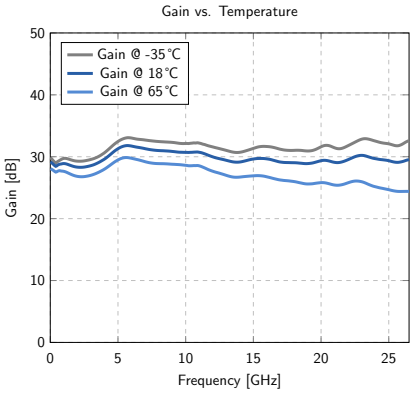
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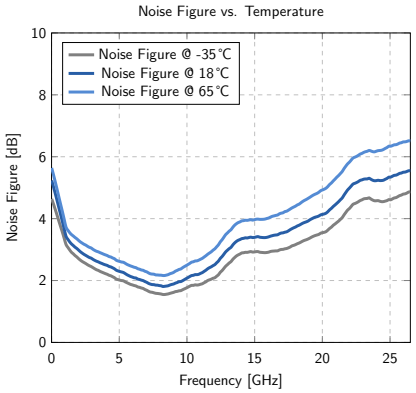
KUHNE electronic
MICROWAVE COMPONENTS

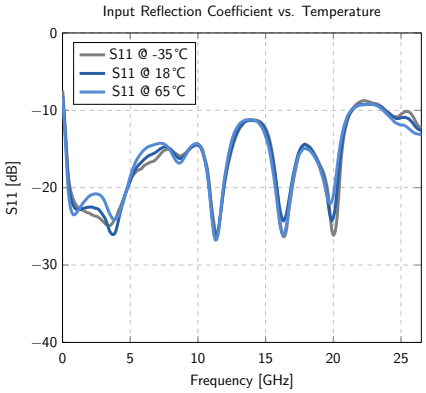
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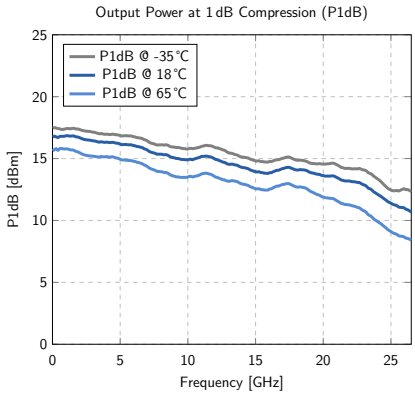
Typical Curves

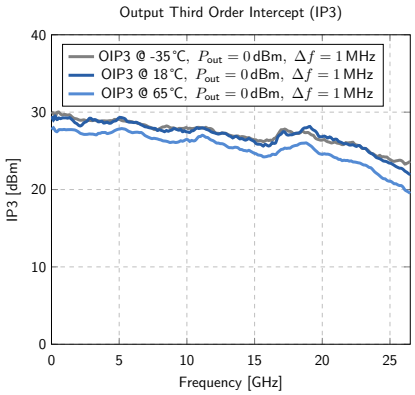
(DC Voltage = 12 V, DC Current = 220 mA)

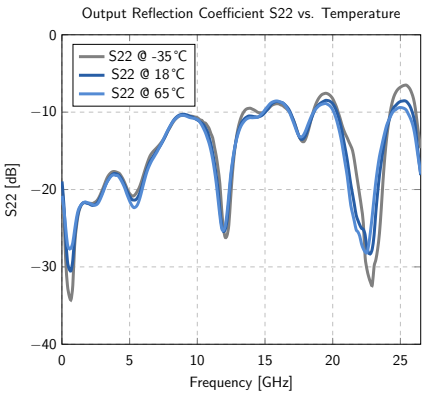












Typical Data

(DC Voltage = 12V, DC Current = 220 mA)

Frequency [GHz]	Gain [dB]	Noise Figure [dB]	S11 [dB]	S22 [dB]	P1dB [dBm]	IP3 [dBm]
0.01	29.2	5.2	-8.2	-19.0	16.7	29.5
5	31.4	2.3	-18.9	-21.0	16.2	29.3
10	30.7	2.1	-14.5	-11.0	14.9	27.5
15	29.6	3.4	-12.6	-10.1	13.9	26.2
20	29.4	4.1	-23.8	-8.9	13.6	26.8
25	29.3	5.3	-10.9	-8.6	11.4	23.4
26.5	29.5	5.5	-12.6	-18.1	10.7	21.9

Outline Drawings

(Unit: mm)

