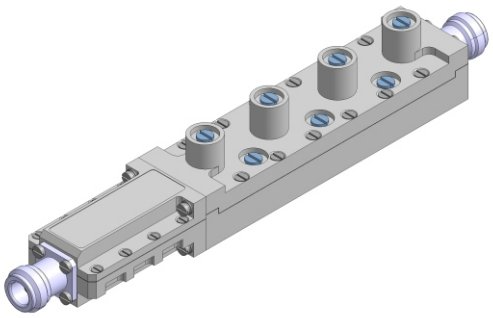
MCS-FLNA-1621-25-30
Low-noise amplifier

General Description

The MCS-FLNA-1621-25-30 is a low-noise amplifier with an input filter, with a high gain, low noise figure. N-type input and output, the supply voltage is supplied via the output connector. Operating frequency can be changed in the range from 1000 MHz to 2000 MHz



Key Features

- Ultra-low noise figure with narrow bandwidth
- High gain at a narrow bandwidth
- Wide range of supply voltages

Application

- Ultra-low noise figure with narrow bandwidth
- Mobile communication systems
- Space communication systems

Specification (at 25°C)

Parameter	Sym.	Min.	Typ.	Max.	Unit
Frequency*	F	1615		1627	MHz
Input VSWR	S_{11}		1.35:1	1.5:1	
Output VSWR	S_{22}		1.5:1	1.7:1	
Bandwidth @-3 dB**	$f_{-3\ dB}$	 22	1.5 23.5	 25	% MHz
Gain		27	28.5	30	dB
Frequencies below @ -60 dB		DC - 1560		1675 -15000	MHz
Noise in the bandwidth			1.05	1.3	dB
1 dB compresion	IP_1	-8.5	-7.5		dBm
Third-Order Intercept	IP_3	4	6		dBm
Supply voltage	V_{cc}	6.5	12	15	V
Supply current	I		180	200	mA
Wave impedance input/output	Z		50?		
The deviation of the frequency -65 ºC@+25 ºC			+0.14 +2.3		% MHz
The deviation of the frequency +80 ºC@+25 ºC			+0.12 -2		% MHz
* - the operating frequency can be changed from 1000 MHz to 2000 MHz **- parameter can be changed according to customer requirements					

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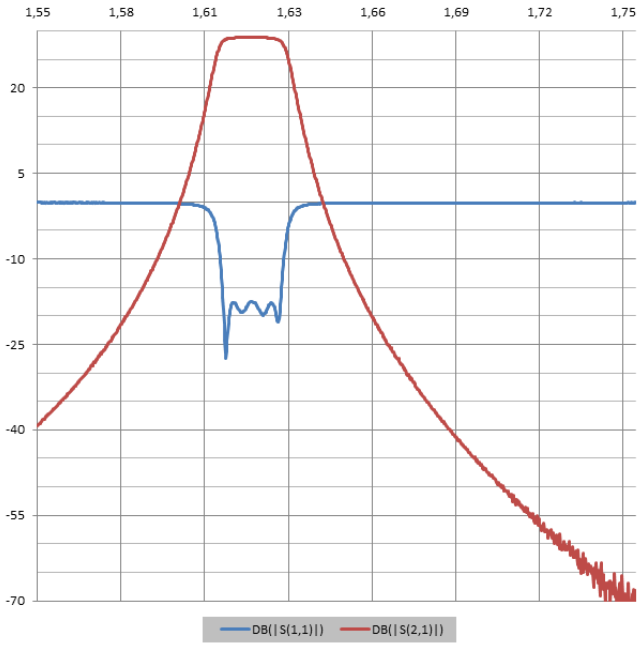
Absolute maximum parameters

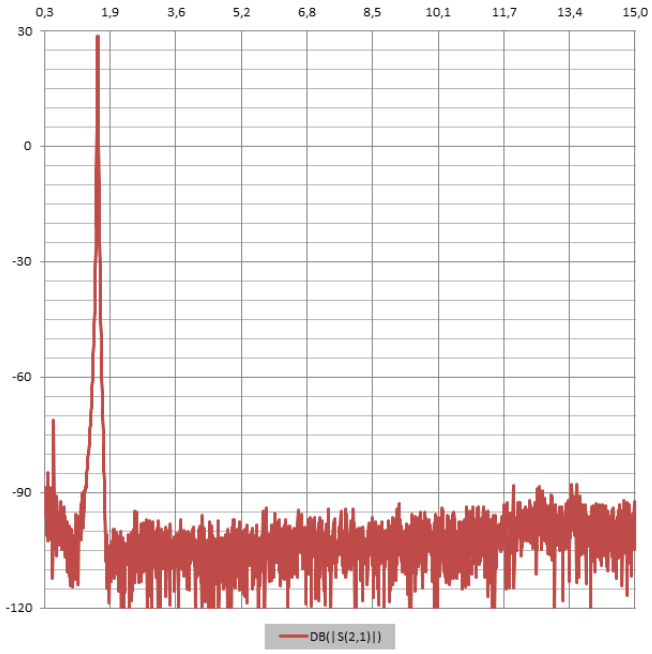
Parameter	Sym.	Value	Unit
Supply voltage	Vcc	20	V
Storage Temperature	P	10	dBm

S – Parameters

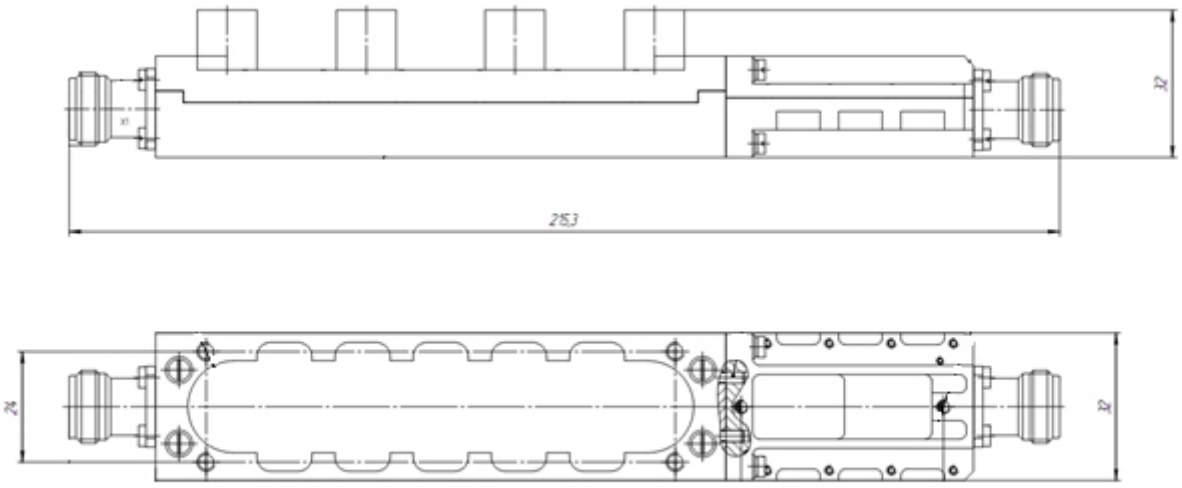
In-Band Response (1.55 – 1.75 GHz)



Out-Band Response (0.3 – 15 GHz)



Physical dimensions



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