



UHF band cryogenic LNA

TTI-CLNA-UHF

Cryogenic Low Noise Amplifiers for Radio Astronomy, Space Communications and Quantum Applications

TECHNICAL SPECIFICATIONS

ELECTRICAL

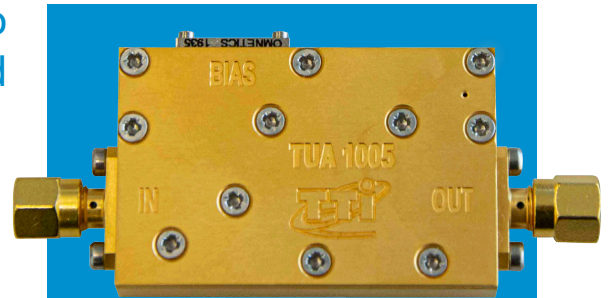
Frequency Range	500 - 700 MHz
Technology	InP
Noise Temperature	≤ 2 K
Average gain	>40 dB
Gain Flatness	<1 dB p-p
Input matching	≤ -3 dB
Output matching	≤ -15 dB
Impedance	50Ω

INTERFACES & PHYSICAL

Input Connector	SMA (female or male)
Output Connector	SMA (female or male)
Power Connector	9-pin female Nano-D
Dimensions (L x W x H)	48.5x31x9.7 mm

POWER SUPPLY

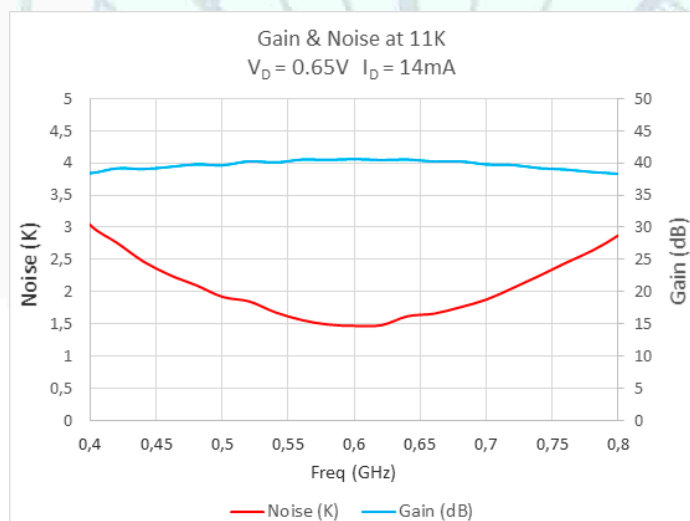
Power Consumption	<10 mW
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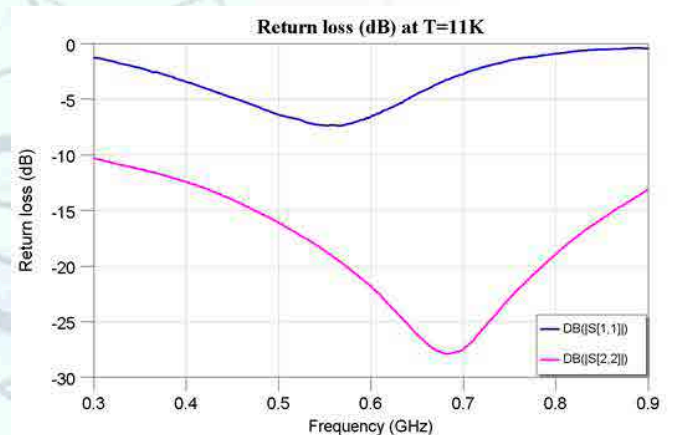
TTI-CLNA-UHF is a C-band Cryogenic Low Noise Amplifier designed to operate at extremely low temperatures (4 to 15 K).

Efficiency is key for Cryogenic amplifiers so we offer very low current consumption and a very light weight.

TTI-CLNA-UHF is extremely stable and highly reliable at cryogenic operating temperatures.



Typical gain and noise performance at cryogenic temperature



Typical input and output return losses at cryogenic temperature