



# C-band Cryogenic LNA

## TTI-CLNA-C-0506

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

### TECHNICAL SPECIFICATIONS

#### ELECTRICAL

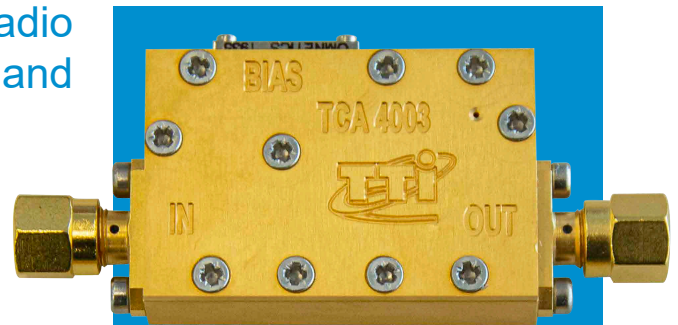
Frequency Range	5700 - 6300 MHz
Technology	InP
Noise Temperature	≤2.5 K
Average gain	>40 dB
Gain Flatness	<0.5 dB p-p
Input matching	≤-5 dB
Output matching	≤-15 dB
Impedance	50 Ω

#### 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)	39.3 x 26 x 9 mm

#### POWER SUPPLY

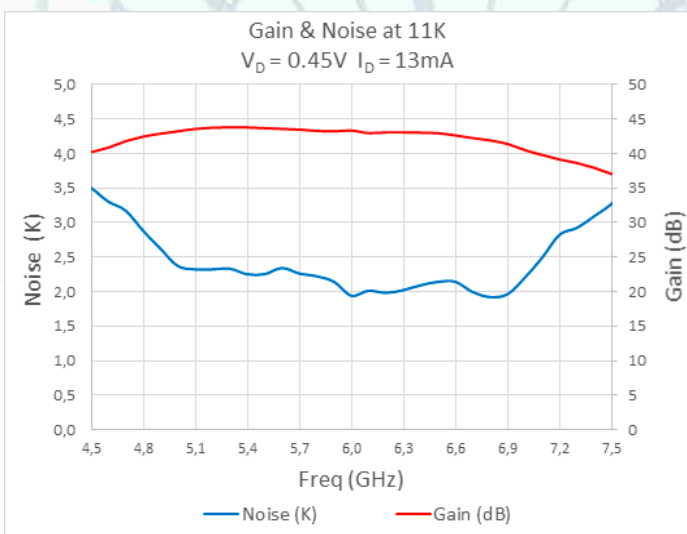
Power Consumption	< 8mW
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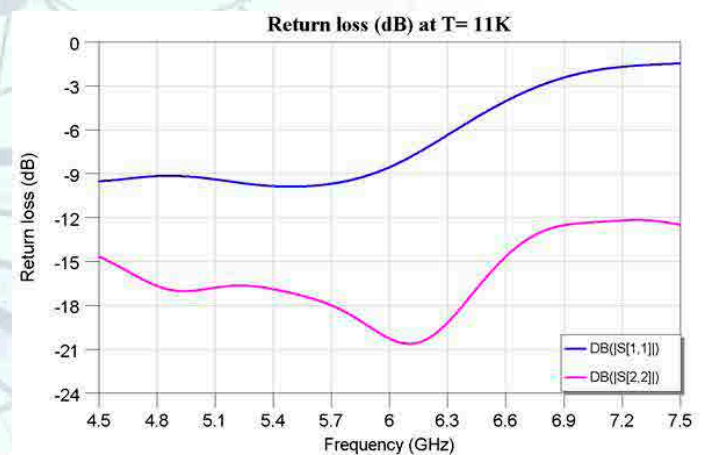
TTI-CLNA-C-0506 is a C-band Cryogenic Low Noise Amplifier designed to operate at extremely low temperatures (4 to 15 K).

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

TTI-CLNA-C-0506 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