



# TTI-LNA-K-2021

@NF<1.4dB

## K-Band Low Noise Amplifier

### TECHNICAL SPECIFICATIONS

#### ELECTRICAL

Frequency band	20.2 – 21.2 GHz
Noise Figure	<1.4 dB
Gain	>60 dB (typ)
Gain Flatness	<2 dBpp
P1dB	>10 dBm, typ 13 dBm
3 <sup>rd</sup> OIP	>20 dBm
Input Waveguide	WR-42
Input VSWR	≤1.5:1
Output Connector	2.92 mm (f)
Output Impedance	50 Ohms
Output VSWR	≤1.8:1
DC Supply Voltage	6.5 to 36 VDC
Current	95 mA @ 15 VDC
DC interfaces	PT02A8-2P Connector

#### ENVIRONMENTAL CHARACTERISTICS

Operating Maximum	-30 to 55 °C (options for extended range)
Storage Maximum	-55 to 85 °C
Humidity	100% Condensing

#### PHYSICAL

Dimensions (output connector excluded)	25.5 x 45 x 60 mm (W x L x H)
Weight	110 grams



### Key Features

- Low noise figure
- High Gain
- Compact enclosure

Low-Noise Amplifier (LNA) that provides very low noise figure <1.4 dB and high gain operation at K frequency band.

Compact enclosure hermetically sealed, able to operate for a wide range of temperatures.