



LNA 4-20 GHz

TTI-LNA-0420

Wideband LNA for Radioastronomy & Satellite Communications

TECHNICAL SPECIFICATIONS

ELECTRICAL

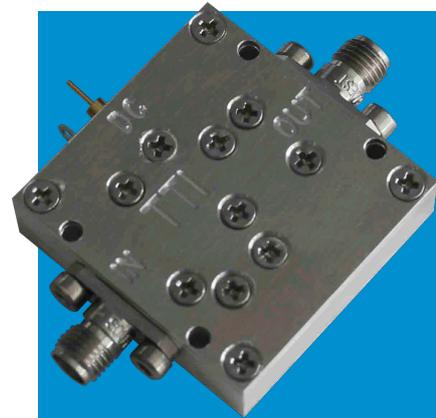
Operating frequency range	4-20 GHz
Input VSWR	$\leq 1.4:1$
Output VSWR	$\leq 1.6:1$
Noise figure	≤ 4 dB
Gain	26 dB to 29 dB
Gain flatness	≤ 1.5 dB full band
Gain-out-of-band	$< (\text{Avg gain } \pm 3 \text{ dB}) @ 0\text{-}40 \text{ GHz}$
P_{1dB}	≥ 14 dBm
Voltage (Nominal)	+8 to +16 VDC
Power consumption	$< 2W$ (at 12 VDC)
Impedance	50 ohm

MECHANICAL & INTERFACES

Input connector	SMA
Output connector	SMA
DC connector	Solder pin and ground lug attached to the chassis
Dimensions (L x W x H)	33.2 x 34.6 x 9.9 mm
Weight	32 g

ENVIRONMENTAL

Operating temperature	0° C to 50 °C
Storage temperature	-30 °C to 60 °C
EMC protection	Internal linear DC regulator, reverse voltage protection and DC filter feed-through



Key Features

- Compact package
- Wideband
- Low noise figure

TTI-LNA-0420 is a warm low noise amplifier highly integrated in a compact package, providing high performance over a wideband range of 4-20 GHz.

