



Ka band LNA Wideband

TTI-LNA-Ka-1720

Ka-Band Low Noise Amplifier

TECHNICAL SPECIFICATIONS

ELECTRICAL

Frequency band	17.7 – 20.2 GHz
Noise Figure	<1.6 dB (130 K)
Gain	>50 dB
Gain Flatness	<2-5 dB over the whole bandwidth
Gain stability over temperature	±2 dB
P1dB	>10 dBm
3 rd OIP	>20 dBm
Input VSWR	<1.6:1 Typ (2:1 Max)
Output VSWR	<1.8:1
Max input level without damage	0 dBm
Spurious	<-60 dBc @ Pout= 0 dBm
DC Voltage	12-28 VDC
Consumption	<250 mA @ 15 VDC

MECHANICAL & INTERFACES

Input connector	WR-42
Output connector	SMA (f), 50 Ω
DC connector	PTO2A8-2P
Dimensions (output connector excluded)	100 x 50 x 35 mm (W x L x H)
Weight	<250 gr
Finish	RAL 2003 (white)

ENVIRONMENTAL CHARACTERISTICS

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



Key Features

- Wideband
- Low noise figure
- Compact enclosure

Low-Noise Amplifier (LNA) covering most of Ka Rx frequency band, providing outstanding performance in terms of noise figure, gain stability and return losses.

Compact enclosure hermetically sealed, able to operate in harsh conditions.