

C-band Warm LNA TTI-LNA-C-0408

C Band LNA for Radioastronomy & Satellite Communications

TECHNICAL SPECIFICATIONS

ELECTRICAL

Operating frequency range 4-8 GHz Input VSWR <1.6:1 Output VSWR <1.6:1 Amplifier noise figure <1.3dB Amplifier gain >33dB Amplifier gain slope +2.4dB

Gain flatness <1.5dB(peak-to-peak) @4-8GHz, <1dB (peak-to-peak) @any 2GHz

portion of this band

Gain compression 1dB @+10dBm Gain variation with temperature <0.03dB/°C Phase variation with temperature <0.5degrees/°C Phase variation with frequency <0.1degree/MHz

Unconditionally stable Stability Unconditionally stable 175mA @8.5V DC biased

voltage

MECHANICAL

RF connector type SMA

Bias connector type Feedthrough

> Upper surface with: type number, serial number and identification of

the I/O ports

ENVIRONMENTAL

Altitude up to 5000m Air pressure 1100-500mbar -30 to +60°C Temperature storage and transport Humidity storage and transport 0-100% RH 15-35°C Temperature unpackaged 30-70% RH Humidity unpackaged Nominal operating temperature 25°C

Operating temperature range 15-45°C

EMC requirement Internal linear DC regulator, reverse voltage protection and

> DC filter feed-through

QUALITY ASSURANCE

Lifetime >15years **MTBF** >1.000.000hours



Key Features

- Compact package
- **Broad Band**
- Low noise figure

TTI-LNA-C-0408 is a warm broadband low noise amplifier highly integrated in a compact package. It could be customised with different gain slopes, and for optimised specifics subbands.