



Q LNA  
37.5-42.5 GHz  
225K

## Q BAND LNA/LNB RANGE FOR LOAD PULL & SATELLITE COMMUNICATIONS

Using **cutting-edge technology**, the new Q LNA family offers outstanding performance in outdoor operations

### INNOVATIVE TECHNOLOGY

State-of-the-art technology provides a very low noise figure at Q band: 37.5-42.5 GHz, with superior performance from a highly compact unit.

### EFFICIENCY & RELIABILITY

Each unit is fully tested in an environmental chamber and delivered with a complete factory acceptance test report.

Advanced design and construction mean the equipment can be operated in the toughest environments.

Exceptional performance combined with reliability and cost effectiveness.

### CONFIGURABILITY

Several options to configure the product at factory are available, including gain, VSWR and noise temperature. Other port configurations, such as coaxial connector can also be supplied, upon request.



### KEY FEATURES

- \* Satcom & load-pull applications
- \* Superior performance
- \* High reliability & efficiency
- \* Ultra-low noise figure
- \* High gain & low ripple
- \* Low input & output VSWR
- \* Fault alarm
- \* Compact size & lightweight
- \* Weatherproof
- \* Wide operating temperature range
- \* Redundant configurations (1:1, 1:2, N:1)



## OPTIONS

- \* Coaxial connector
- \* Redundant systems 1:1, 2:1, N:1
- \* Indoor controller
- \* Extended temperature range:  
-40 °C, + 55 °C

## TECHNICAL SPECIFICATIONS

Q LNA

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### ELECTRICAL

|                                 |                           |
|---------------------------------|---------------------------|
| Operating frequency range       | 37.5-42.5 GHz             |
| Noise temperature               | <225 K / <290 K           |
| Noise figure                    | <2.5 dB / <3.0 dB         |
| Input VSWR                      | <2.0:1 / <1.3:1           |
| Output VSWR (50 Ω)              | <2.0:1 / <1.3:1           |
| Gain                            | >50 dB / >40 dB           |
| Gain flatness                   | 2 dB pp max / 3 dB pp max |
| Gain variation over temperature | ±2 dB                     |
| Output P1dB                     | >5 dBm                    |
| 3 <sup>rd</sup> OIP             | >15 dBm                   |
| Spurious                        | <-60 dBc                  |

### POWER SUPPLY & MONITORING

|                       |                        |
|-----------------------|------------------------|
| Input voltage         | +12 to +24 VDC         |
| Current consumption   | <75 mA @12 VDC         |
| Fault alarm circuitry | Form-C contact closure |

### INTERFACES & PHYSICAL

|                        |   |
|------------------------|---|
| Dimensions (L x W x H) | 145 x 70 x 40 mm  |
| Weight                 | 500 gr  |
| Interfaces             | RF input flange: UG-383/U<br>RF output: UG-383/U<br>DC & monitoring: PT02A10-5P |

### ENVIRONMENTAL

|                       |                  |
|-----------------------|------------------|
| Operating temperature | -30 °C to +55 °C |
| Storage temperature   | -40 °C to +85 °C |
| Humidity              | 100 % condensing |

## TTI CONTACT

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## NOTICE

Information contained in this document is subject to change without notice.

Unless otherwise specifications, tests have been done at 23 °C.