Q band LNA/LNB range for load pull & satellite communications



USING **CUTTING-EDGE TECHNOLOGY,** THE NEW Q LNB FAMILY OFFERS OUTSTANDING PERFORMANCE IN OUTDOOR OPERATIONS

Innovative technology

State-of-the-art technology provides a very low noise figure at Q band: 38-40 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)

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Technical specifications

Q LNB
38-40 GHz
262K

RF performance

Output frequency range	950-1950 MHz
Operating frequency range	38-39 GHz / 39-40 GHz
OL frequency	37.05 GHz / 38.05 GHz
Noise temperature	<262 K
Noise figure	<2.8 dB
Input VSWR	<1.55:1
Output VSWR (50 Ω)	<2.0:1
Gain	>60 dB
Gain flatness	3 dB pp max
Gain variation over temperature	±2 dB
Output P1dB	>10 dBm
3rd OIP	>20 dBm
Phase noise	-62 dBc/Hz @100 Hz
	-72 dBc/Hz @1 kHz
	-82 dBc/Hz @10 kHz
	-92 dBc/Hz @100 kHz
	-102 dBc/Hz @1 MHz
External references input frequency	10 MHz
External references input power	0 dB ±3 dB
Spurious	<-60 dBc

Power supply & Monitoring

Input voltage	+12 to +24 VDC
Current consumption	<350 mA @12 VDC / <175 mA @24 VDC
Fault alarm circuitry	Form-C contact closure (option)

Interfaces & Physical

Dimensions (L x W x H)	145 x 70 x 40 mm
Weight	500 gr
Interfaces	RF input flange: UG-383/U
	IF output: N (f)
	DC: supplied through IF port
	Monitoring: EGG.0T.309.CLL
	External reference: SMA (f)

Environmental

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

OPTIONS

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

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

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

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