

ALB130 Lite Series

Lite 80W Ku-Band Block-Up Converter

gilis

This small and lightweight BUC is ideal for mobile and satellite uplink applications.

The BUC has "Best in Class" efficiency and "lowest power consumption." The unit works on a wide range DC power supply. Innovative and efficient thermal design makes this BUC one of the smallest, robust, reliable and rugged enough to withstand outdoor conditions in the industry.

Extensive M/C interface with RS232/RS485/Ethernet (SNMP & HTTP).

Quality Assurance

100% of all BUCs go through stringent quality checks in addition to well defined Electrical Stress Screening to ensure operation in harsh outdoor environments. The BUCs are also subjected to seal test for water ingress verification.

Reliability

Field proven under harsh environment conditions, Agilis ODUs can withstand temperature ranging from -40°C to +60°C with up to 100% humidity.

Features

- Compact and lightweight
- · Available in standard and extended Ku-Band
- · Forward power detection
- Intuitive monitoring & control through RS232/RS485 & Ethernet (SNMP & HTTP)
- · Automatic fault identification & alarm generation
- Temperature compensation facility
- Built-in receive reject filter
- Wide operating temperature range -40°C to +60°C
- RoHS Compliant
- Waterproof

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Technical Specifications

RF Specifications

80W

80W

1KHz

10KHz

100KHz

I/P VSWR

O/P VSWR

Transmit Frequency 14.00GHz - 14.5GHz 13.75GHz – 14.5GHz 950MHz - 1450MHz IF Frequency Range 950MHz – 1700MHz 13.05GHz LO Frequency 12.80GHz **Output Power P1dB** 49dBm Spectral Re-growth 30dBc @ 2dB backoff from P1dB Third Order Intermod (two tone) -25dBc @ relative to combine power of two carrier at 3dB total power backoff from P1dB Small Signal Gain 65dB Min Gain Flatness Full Band ±2dB Gain Slope over 40MHz ±1dB Gain Variation over temperature ±2dB @ from -40°C to +60°C 20dB in step of 0.5dB Gain Control **O/P** spurious According to EN301428 Phase Noise @ Offset -73dBc/Hz

-83dBc/Hz

-93dBc/Hz

70dBW/4KHz

142dBW/4KHz

1.3:1

1.25:1

Monitor And Control

Monitor	BUC temperature Status alarm Output power LED status indication
Control	Attenuation RF output mute
Interface	RS232/RS485 & Ethernet (SNMP & HTTP)
Tx Redundancy	with external RCU
Environmental	
Operating Temperature	-40°C to +60°C
Humidity	Up to 100% Weather protection sealed to IP65
Mechanical	
Size 80W	320L x 197W x 97H mm
Weight 80W	4kg
Color	White Powder Coat
Compliance Standa	ard
IEC 609501-2nd Edition	International Safety Standard for Information Technology Equipment
ETSI EN 301 489-12	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) Standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GHz in the Fixed Satellite Service (FSS)
ETSI EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility Standard for Radio Equipment and Services
FCC Class A	Two levels of radiation and conducted emissions Limits for unintentional radiators (FCC Mark)
Note: All specifications are subject	to change without notice

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DC Power

Prime Power **Power Consumption** 80W / 100W

Noise Power Density Tx BD

Rx BD

28VDC (range 24V to 32VDC) 48VDC (range 38V to 60VDC) (optional) 550VA Typical

Interfaces

IF Input Interface **Output Interface**

50Ohms N-type Female WR 75G

External Reference

Frequency Power

10MHz -5dBm to +5dBm

External reference phase noise Requirement @ frequency offset 1KHz 10KHz 100KHz

-150dBc/Hz -155dBc/Hz -160dBc/Hz

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