

ALB150 Series

Palm Size 6W X-Band Block-Up Converter

Agilis ALB150 Series Feed Mount 6W X-BUC is small and lightweight BUC suitable for mobile applications and satellite uplink applications. The BUC has excellent thermal efficiency and consumes less power.

Innovative and efficient thermal design makes this BUC the smallest in the world.

Features

- · Low cost and compact package
- Direct antenna mounting
- Excellent linearity
- Extremely reliable
- High power efficiency
- Excellent phase noise characteristics
- Low spurious
- Automatic temperature compensation feature
- Wide operating temperature range -40°C to +60°C
- RoHS Compliant
- Waterproof with IP65 standard

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.



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Technical Specifications

RF Specifications

7900MHz to 8400MHz **Transmit Frequency** IF Frequency Range 950MHz to 1450MHz

Output Power @ P1dB 37.8dBm

Small Signal Gain 56dB min

Gain Flatness ±2dB over the O/P frequency band **Gain Variation** ±2dB over the operating temperature range

Inter Modulation -27dBc @ Relative to combine power of two

carriers at 3dB total power backoff from

Rated Output power

According to EN301428

O/P spurious

Phase Noise @ Offset

-73dBc/Hz max

1KHz 10KHz -83dBc/Hz max 100KHz -93dBc/Hz max

I/P VSWR 2.0:1 max O/P VSWR 2.0:1 max

DC Power Requirement

24VDC Nominal (Range 18V to 60V) Prime Power

Power Consumption 65W @ 24VDC input

Power Supply Interface Common input via IFL

Interfaces

IF Input Interface 50Ohms N-type Female /

75Ohms F-type Female (optional)

Output Interface WR 112G

External Reference Requirement

Frequency

-5dBm to +5dBm Power

External reference phase

noise requirement @ frequency offset

-150dBc/Hz 1KHz 10KHz -155dBc/Hz 100KHz -160dBc/Hz

Environmental

Operating Temperature -40°C to +60°C

Humidity Up to 100%

Weather protection sealed to IP65

Mechanical

Size 153L x 103W x 70H mm

Weight 1.6ka

Color White Powder Coat

Compliance Standard

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 RadioSpectrum

> 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 changes without notice.



