

ALB129 Series

Palm Size 4W Ku-Band Block-Up Converter

Agilis ALB129 Series Feed Mount 4W Ku-BUC is small and lightweight BUC suitable for mobile applications and satellite uplink applications. The BUC has excellent thermal efficiency and consumes less than 34W.

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
- · LED indicator for BUC status

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.



ALB129 Series

Palm Size 4W Ku-Band Block-Up Converter

Technical Specifications

RF Specifications

Transmit Frequency 13.75GHz - 14.5GHz IF Frequency Range 950MHz to 1700MHz Output Power @ P1dB 36dBm (4W)

Small Signal Gain 60dB nominal

Gain Flatness ±2.5dB 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

1KHz -73dBc/Hz max 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 36V) Prime Power

Power Consumption 34W @ 24VDC input (Typical for 4W)

Power Supply Interface Common input via IFL

Interfaces

IF Input Interface 50Ohms N-type Female /

75Ohms F-type Female (optional)

Output Interface WR 75G

External Reference Requirement

Frequency 10MHz

-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 134L x 99W x 52H mm / 5.3 x 3.9 x 2.0 in

Weight 0.8kg / 1.8lbs

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.



For more information, please send enquiry to:

