

## **ALB229 Series**

Ruggedized Compact 40W Ku-Band Block-Up Converter

This small and lightweight BUC is ideal for SOTM applications while also offering benefits for fixed and maritime applications.

Designed to be mounted on the feed horn, the BUC has "Best in Class" efficiency and "lowest power consumption" with less than 330W. The unit works on a wide range DC power supply of 38V to 60V. Innovative and efficient thermal design makes this BUC on of the smallest, robust, reliable and rugged enough to withstand outdoor conditions in the industry.

The unit can be configured to work in 1:1 redundant mode by adding on a simple redundancy option to the basic unit.

#### Features

- Compact and lightweight
- · Feed mountable
- · Available in both standard and extended Ku-Band
- Forward power detection facility
- Intuitive monitoring & control through RS232/485 & Ethernet (SNMP & HTTP)
- Auto ranging 38 to 60VDC Power Supply
- · Automatic fault identification & alarm generation
- Wide operating temperature range -40°C to +60°C
- IP65 rated housing (Weather proof Construction)
- · RoHS compliant

#### 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.

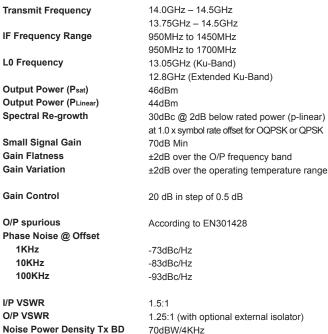


# **ALB229 Series**

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### **Technical Specifications**

#### **RF** Specifications



142dBW/4KHz

Noise Power Density Tx BD Rx BD

#### **DC Power**

**Prime Power** 48VDC (range 38 to 60VDC) via external MS connector **Power Consumption** 280W (Typical @ 46dBm)

#### Interfaces

IF Input Interface	50Ohms N-type Female
Output Interface	WR 75G

#### **External Reference**

#### Frequency

Power

#### External reference phase noise requirement @ frequency offset

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

:/Hz :/Hz :/Hz

-5dBm to +5dBm

10MHz



#### Monitor And Control

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status indication nuation putput mute 32/485 & Ethernet (SNMP & HTTP) via rmal MS connector rmal RCU (optional for 1+1 redundancy em requirement) C to +60°C to 100% ther protection sealed to IP65 
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national Safety Standard for Information nology Equipment
romagnetic Compatibility and Radio Spectrum ers (ERM); ElectroMagnetic Compatibility (EMC) dard for radio equipment and services; Part 12: ific conditions for Very Small Aperture Terminal, lite Interactive Earth Stations operated in the ency ranges between 4GHz and 30GHz in the d Satellite Service (FSS)
romagnetic Compatibility and Radio Spectrum ers (ERM); ElectroMagnetic Compatibility dard for Radio Equipment and Services
levels of radiation and conducted emissions
s for unintentional radiators (FCC Mark)
s for unintentional radiators (FCC Mark) itd-810F, Method 514.5, Procedure 1, i,5-500Hz, Vertical: 218grms, sverse: 1.60grms, Longitudinal: 1.96grms

Note: All specifications are subject to change without notice. . Rev. 050313



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