

ALB129 Series

Palm Size 1W/2W/3W Ku-Band Block-Up Converter

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

Designed to be mounted on the feed horn, the 3W BUC has excellent efficiency and consumes less than 24W.

Innovative and efficient thermal design makes this BUC one of the smallest, lightest & most reliable in the industry.

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Features

- Compact and lightweight
- Feed mountable
- Excellent linearity
- Extremely reliable
- High power efficiency
- Excellent phase noise characteristics
- Low spurious
- Wide input D.C voltage range
- 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

Transmit Frequency

IF Frequency Range

Output Power @ P1dB

L.O Frequency

Small Signal Gain

Gain Flatness

Gain Variation

Inter Modulation

O/P spurious

1 KHz

10 KHz

100 KHz

I/P VSWR

O/P VSWR

DC Power Prime Power

Power Consumption

Power Supply Interface

Interfaces

IF Input Interface

Output Interface

Phase Noise @ Offset



	Environmental	
13.75GHz – 14.5GHz	Operating Temperature	-40°C to +60°C
950MHz to 1700MHz 12.8GHz 30dBm (1W) / 33dBm (2W) / 34.5dBm (3W)	Relative Humidity	Up to 100% Weather protection sealed to IP65
55dB (Typical for 1W)	Mechanical	
55dB (Typical for 2W) 58dB (Typical for 3W)	Size	124L x 91W x 43H mm / 4.9 x 3.6 x 1.7 in
±2.5dB over the O/P frequency band ±2dB over the operating temperature range	Weight	0.5kg / 1.1lbs
	Color	White Powder Coat
-27dBc @ Relative to combine power of two carriers at 3dB total power backoff from	Compliance Standard	
Rated Output power	IEC 609501-2nd Edition	International Safety Standard for Information
According to EN301428		Technology Equipment
-73dBc/Hz max -83dBc/Hz max -93dBc/Hz max 2.0:1 max	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)
2.0:1 max		
24VDC (range 19 to 36VDC)	ETSI EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility Standard for Radio Equipment and Services
12W @ 24VDC input (Typical for 1W) 20W @ 24VDC input (Typical for 2W) 20W @ 24VDC input (Typical for 3W)	FCC Part 15 Class B	Two levels of radiation and conducted emissions Limits for unintentional radiators (FCC Mark)

Note: All specifications are subject to change without notice. . Rev. 300112

External Re	eference
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Frequency 10MHz Power

-5dBm to +5dBm

WR 75G

Common input via IFL

50Ohms N-type Female / 75Ohms F-type Female (optional)

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

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

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