

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.



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Technical Specifications

RF Specifications

Transmit Frequency IF Frequency Range

Small Signal Gain

Gain Flatness

Gain Variation

Inter Modulation

O/P spurious

10KHz

I/P VSWR

O/P VSWR

Prime Power

100KHz

Phase Noise @ Offset 1KHz

DC Power Requirement

Output Power @ P1dB



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13.75GHz – 14.5GHz 950MHz to 1700MHz	Operating Temperature	-40°C to +60°C
36dBm (4W)	Humidity	Up to 100%
60dB nominal	Mechanical	Weather protection sealed to IP65
±2.5dB over the O/P frequency band ±2dB over the operating temperature range	Size	134L x 99W x 52H mm / 5.3 x 3.9 x 2.0 in
-27dBc @ Relative to combine power of two	Weight	0.8kg / 1.8lbs
carriers at 3dB total power backoff from Rated Output power	Color	White Powder Coat
According to EN301428	Compliance Standard	
-73dBc/Hz max -83dBc/Hz max	IEC 609501-2nd Edition	International Safety Standard for Information Technology Equipment
-93dBc/Hz max	ETSI EN 301 489-12	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC)
2.0:1 max 2.0:1 max		Standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the
ent		frequency ranges between 4GHz and 30GHz in the Fixed Satellite Service (FSS)
24VDC Nominal (Range 18V to 36V)	ETSI EN 301 489-1	Electromagnetic Compatibility and RadioSpectrum
34W @ 24VDC input (Typical for 4W)		Matters (ERM); ElectroMagnetic Compatibility Standard for Radio Equipment and Services
Common input via IFL	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. . Rev. 300112



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)

WR 75G

Output Interface

External Reference Requirement

Frequency	10MHz			
Power	-5dBm to +5dBm			
External reference phase noise requirement @ frequency offset				
1KHz	-150dBc/Hz			
10KHz	-155dBc/Hz			
100KHz	-160dBc/Hz			

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