## **ALB129 Series**

Palm Size 5W Ku-Band Block-Up Converter

Agilis ALB129 Series Feed Mount 5W Ku-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

8

۲

8

3

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 5W Ku-Band Block-Up Converter

### **Technical Specifications**

**RF** Specifications



### Environmental

Transmit Frequency	13.75GHz – 14.5GHz	Operating Temperature	-40°C to +60°C
IF Frequency Range LO Frequency Output Power @ P1dB	950MHz to 1700MHz 12.80GHz 37dBm	Humidity	Up to 100% Weather protection sealed to IP65
Small Signal Gain	60dB nominal	Maghaniaal	
		Mechanical	
Gain Flatness Gain Variation	±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 134L x 99W x 65H mm / 5.3 x 3.9 x 2.56 in (with Fan)
Inter Modulation	-27dBc @ Relative to combine power of two	Weight	0.8kg / 1.8lbs
	carriers at 3dB total power backoff from	Color	0.85kg / 1.87lbs (with Fan) White Powder Coat
	Rated Output power	0000	white Powder Coat
O/P spurious	According to EN301428	Cooling	Forced-air Cooling
Phase Noise @ Offset		Compliance Stop	dord
1KHz	-73dBc/Hz max	Compliance Standard	
10KHz 100KHz	-83dBc/Hz max -93dBc/Hz max	IEC 609501-2nd Edition	International Safety Standard for Information
			Technology Equipment
I/P VSWR	2.0:1 max	ETSI EN 301 489-12	Electromagnetic Compatibility and Radio Spectrum
O/P VSWR	2.0:1 max		Matters (ERM); ElectroMagnetic Compatibility (EMC)
			Standard for radio equipment and services; Part 12:
DC Power Requirement			Specific conditions for Very Small Aperture Terminal,

			Satellite Interactive Earth Stations operated in the
Prime Power	24VDC Nominal (Range 18V to 36V)		frequency ranges between 4GHz and 30GHz in the Fixed Satellite Service (FSS)
Power Consumption	62.4W @ 24VDC input	ETSI EN 301 489-1	Electromagnetic Compatibility and RadioSpectrum Matters (ERM); ElectroMagnetic Compatibility Standard for Radio Equipment and Services
Power Supply Interface	Common input via IFL		
Interfaces		FCC Class A	Two levels of radiation and conducted emissions Limits for unintentional radiators (FCC Mark)

IF Input Interface	50Ohms N-type Female / 75Ohms F-type Female (optional)
Output Interface	WR 75G

### External Reference Requirement

Frequency	10MHz
Power	-5dBm to +5dBm

 External reference phase

 noise requirement @ frequency offset

 1KHz
 -150dl

 10KHz
 -155dl

 100KHz
 -160dl

-150dBc/Hz -155dBc/Hz -160dBc/Hz Note: All specifications are subject to changes without notice. Rev. 010714



Request A Quote