

ALB128 Series

Klassic 6W/8W Ku Band Block-Up Converter

Suitable for broadband applications in flyaway and satellite IP networks for both voice and data communication of different modulation mode,

Excellent output linearity and phase noise with full monitor and control (M&C) features. Auto input voltage ranging between 16Vdc to 60Vdc. Designed to operate between -40°C to +60°C under harsh outdoor environment.

Easy installation with redundancy ready features to work in 1+1 redundancy mode.

Features

- Feed mountable
- Monitoring and Control through Serial and Ethernet ports
- Excellent output power linearity and phase noise
- Fault identification and alarm generation
- Auto gain control throughout operating temperature
- Auto input DC ranging 16 to 60Vdc
- Wide operating temperature -40°C to +60°C
- Fanless 8W option available with operating temperature up to +55°C
- IP65 Weatherproof
- RoHS Compliant

Quality Assurance

100% thorough stringent quality checks in addition to well-defined Electrical Stress Screening to ensure operation in harsh outdoor environment conditions. All subjected to seal test for water ingression verification.

Reliability

Field proven under harsh environment conditions. Agilis ODUs can withstand temperature ranging from -40°C to +60°C under 100% humidity.



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Technical Specifications

RF Specifications

Freq Band	Transmit	IF		LO	
Plan	12.75 – 13.25GHz	950 – 1450MHz		11.80GHz	
Standard	14.00 – 14.50GHz	950 - 145	0MHz	13.05GHz	
Extended	13.75 – 14.50GHz	950 – 170	0MHz	12.80GHz	
Output Power	P1dB			Plinear	
6W	37.8dBm (6V	V)	3	4.8dBm (3W)	
8W	39.0dBm (8V	dBm (8W) 36.0dBm (4W)			
Small Signal Gair	n 62dB n	nin (6W)			
	64dB n	nin (8W)			
Gain Flatness	±2dB w	ithin band			
	±1dB o	ver 40MHz			
Gain Variation	±2dB w	± 2 dB within band over operating temperature			
Intermodulation	-25dBc	-25dBc max @ Plinear			
Spurious	Accord	According to EN 301 428			
Phase Noise	-93dBc	-93dBc/Hz max @100KHz offset			
	-83dBc	/Hz max @1	0KHz off	set	
	-73dBc	/Hz max @1	KHz offs	et	
VSWR	2.0:1 m	2.0:1 max @input			
	2.0:1 m isolator	•	with option	onal external	
Noise Power Den	sity Tx Ban	Tx Band : -70dBW/4KHz max			
	Rx Bar	Rx Band : -142dBW/4KHz max			
AC/DC Power					
Prime Power		0Vdc Auto R	ange		
Power Consumpt			5-		
	80VA (
Interface					
IF Input	N-Туре	e Female 500	2		
	F-Type	Female 750	Ω (option)		
RF Output	WR75	Square Groo	oved		

Reference Requirement

Frequency	10MHz
Power Level	-5dBm to +5dBm
Ext Ref Phase Noise	-155dBc/Hz max @100KHz offset
	-145dBc/Hz max @10KHz offset
	-135dBc/Hz max @1KHz offset



Monitor	BUC Temperature
	Status Alarm with LED Indicator
	LO Unlock Alarm
	RF Input and Forward Power Detection
Control	Gain adjustable 15dB with 0.5dB step
	RF Output On/Mute
Communication Port	Serial RS232/RS485
	Ethernet (SNMP & HTTP)
Transmit Redundancy	Redundancy-Ready (with external controller unit)
Environmental	
Operating Temperature	-40°C to +60°C
Relative Humidity	Up to 100%
Weatherproof	IP65
Mechanical	
Dimension (excluding interface connectors)	L282 x W142 x H98mm
,	L11.10" x W5.59" x H3.86"
Weight	4.1Kg / 9.0lbs
Compliance Standard	
IEC 609501-2nd Edition	International Safety Standard for Information Technology Equipment
ETSI EN 301 489-12	Electromagnetic Compatibility and Radiu Spectrum Matters (ERM); Electro Magnetii Compatibility (EMC) Standard for radiu equipment and services; Part 12: Specifi conditions for Very Small Aperture Termina Satellite Interactive Earth Stations operated in the frequency ranges between 4GHz and 30GH in the Fixed Satellite Service (FSS)
ETSI EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Electro Magnetic Compatibility Standard for Radio Equipment and Services
	Two levels of radiation and conducted emission

NOTE: All specifications subject to change without notice 200420

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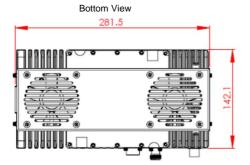
ALB128 Series

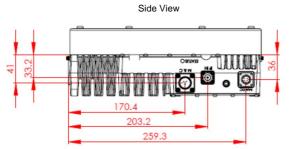
Klassic 6W/8W Ku Band Block-Up Converter

Standard Part List for Standalone Configuration

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ITEM	PRODUCT NAME	OPTION	PART NUMBER	QTY	DESCRIPTION
1	BUC			01	BUC
2	Prime Power Input Cable	Non-IFL model		01	Cable Assembly 7-3P to Unterminated 3m
3	Cable M&C	RS232	2502040500	01	Cable Assembly M&C - 232/485 12-8P to DB9 (F) 3m
	Cable M&C	RS485	2502041169	01	Cable Assembly 12-8P to DB9 (F) 2M
4	Cable M&C	ETH	2502041166	01	Cable Assembly ETH-DB9 to RJ45 2M
5	Converter	RS485	6103480008	01	Converter USB to RS485
6	Mounting Accessory Set			01	Mounting screws including brackets and gasket for flange WR75

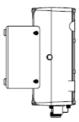
Mounting Diagram





Side View

Side View





Side View



Option Items

ITEM	PRODUCT NAME	OPTION	PART NUMBER	DESCRIPTION
1	WG Flexible	0.6m	4203490010	Flexible WG Ku band WR75 Sq Grooved to WR75 Sq Cover 0.6m
		1.0m	4203490049	Flexible WG Ku band WR75 Sq Grooved to WR75 Sq Cover 1m
		1.5m	4203490014	Flexible WG Ku band WR75 Sq Grooved to WR75 Sq Cover 1.5m

NOTE: Part list and drawing subject to change without notice 200420

