AUC48 Series

L/IF to X Band Upconverter

Features

- Compact unit, complete in a single 1 RU package
- Full monitoring and control through LCD and keypad front panel or serial remote
- User selectable spectrum inversion
- Redundant ready
- Available for wide satellite bands
- Flexible design for various user's configurations
- RS232, RS485 and SNMP interface for remote M&C

Reliability

Field proven with system deployed worldwide, Agilis IDU can withstand temperature from 0ºC to +50ºC up to 95% non-condensing humidity.

Quality Assurance

All Agilis IDUs are designed and manufactured according to ISO 9001 Standard.

Agilis

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L/IF to X Band Upconverter

Technical Specifications

Input Parameters

Input Frequency	950-1700MHz (for L to X) 70 ± 18MHz (140MHz optional) (for IF to X)
Impedance	50Ω
VSWR	1.5:1

Output Parameters

Output Frequency	7.9 to 8.4GHz
Impedance	50Ω
VSWR	1.5:1
Output Power @P1dB	+5dBm min

Transfer Parameters

Frequency spectrum	User selectable (for IF to X)
Conversion Gain	25dB min
Gain Adjustment	20dB with 0.5dB step
Gain Flatness	±0.75dB over 36MHz Bandwidth ±1.5dB over Full Bandwidth
Gain Stability	±0.25dB over 24hours at constant temperature
In Band Spurious	
Carrier dependent	-55dBc at max gain
Carrier Independent	-70dBm max
Out Band Spurious exclude LO	-50dBm max
Third order intermodulation products	35dBc @ 2 carriers 2MHz apart, 8dB back off from Prated for each carrier
Phase Noise	
@1KHz	-73dBc/Hz
@10KHz	-83dBc/Hz
@100KHz	-93dBc/Hz (for IF to X)
@1KHz	-75dBc/Hz
@10KHz	-85dBc/Hz
@100KHz	-95dBc/Hz (for L to X)

Rear Panel Connections

IF/L Input	BNC Female (for IF to X) N-Type Female (for L to X)
RF Band Output	SMA Female
10MHz Ext REF Connector (Optional)	BNC Female
Remote Connector	DB 9 Female
Power IN	AC/DC

Monitor and Control

Interface	RS232/RS485/SNMP (Optional)
Monitoring parameters	LO & Temperature Alarms
Control Parameters	Gain Adjustment @ 0.5dB Step

Power Supply Requirement

AC Input Voltage	100 to 240VAC 50/60Hz
Power Consumption	35W

Environmental

Operating temperature	0ºC to 50ºC
Humidity	up to 95% (Non-condensing)

Mechanical

Dimension	480L x 330W x 44H mm
Weight	3.5kg (for L to Ku) 4.0kg (for IF to Ku)

*All specifications are subject to change without notice.
Rev. 300112

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