

Ku-BAND UP-CONVERTER (10.95 - 12.75GHz)

The Ku-Band Up-converter is available in 19" wide and 1U high rack mountable systems. It offers frequency step size of 1kHz, with input frequency of 70MHz and output frequency between 10.95 - 12.75GHz. It is easily controlled and monitored remotely, using TCP/IP interface and has capability of allocating a unique IP address. The system could be easily controlled with standard software programs such as Labview, Labwindows, C, C++ etc.

- ### FEATURES
- Wideband output
 - Output protected with a Isolator for open and short
 - High stability, low ripple and excellent phase noise
 - 10MHz External Reference option fitted as standard with automatic internal reference back-up
 - LCD LED alarms on front panel for control and monitoring
 - Input frequency 70MHz \pm 20MHz
 - Remote monitoring and control using TCP/IP interface
 - Internal capability of allocating unique IP address
 - Option to preset up to 20 Frequency channels
 - Sturdy 19" rack mountable case

- ### APPLICATION
- Satellite Communication
 - Weather Radar
 - ATE signal source
 - Civil Aviation Radar
 - Defense application

Electrical Specification:

Parameter	Specification	Units
Frequency range	10.95 - 12.75	GHz
Gain	>25	dB
Gain adjust	100 in 10 & 1 steps	dB
Gain stability	\pm 0.25	dB/day
Gain ripple over 36MHz band	\pm 0.2	dB
AM/PM conversion	0.1	Deg./dB
Noise figure	<6	dB
Frequency band	70 \pm 20	MHz
Return loss min.	20	dB
I/P level range	-30 to +10	dBm
Phase Noise	See next page	-
Frequency step size (minimum)	1	KHz
Stability time min.	\pm 1x10 ⁻⁹	/day
Stability temperature min.	\pm 1x10 ⁻⁸	/day
Mean Time Between Failure (MTBF)	50,000	Hours



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Physical Specification:

Output connector		N-Type
Output impedance		50Ω
Input Intermediate Frequency		70MHz
Impedance		50Ω
External reference		10MHz
External Reference Connector		BNC/TNC/SMA
Dimension	Width	19 inch
	Height	1U
	Depth	<250 mm.
Weight		<5kg

System Control:

Local Control		Front Panel push buttons and LCD display
Remote Control	TCP/IP	RJ45 Ethernet Port
	RS232	9 pin D-type Female
Front Panel Alarms	Power On	LED
	Error	LED
	Remote Operation	LED
Operational Modes		Front Panel or remote is selected automatically
IP Address allocation		Using telnet with Raw TCP/IP connection

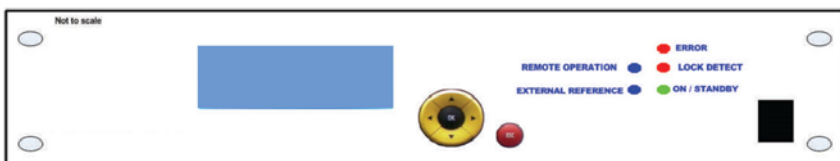
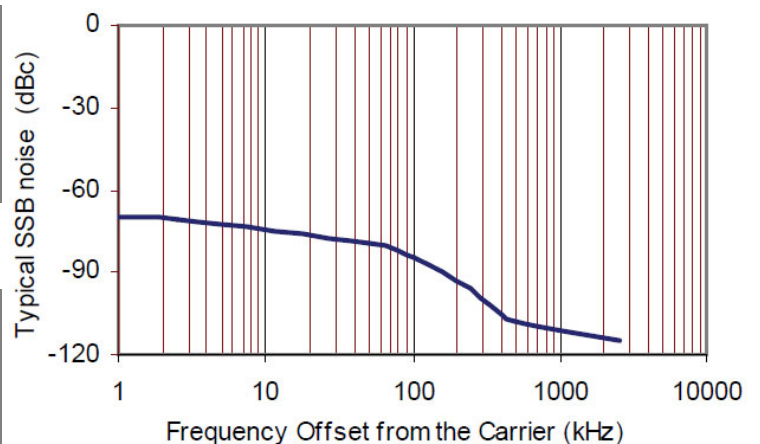
Environmental Specification:

Operating temperature range	0 to 50°C
Location	Indoor use only
Humidity	-85% non-condensing
Storage temperature	-20 to +75°C

AC power:

Voltage	85 - 264V AC
Frequency	50 - 60 Hz
Socket	IEC Standard
Fuses	5x20mm standard

Typical Phase Noise added by the system



Other options available:

- Higher P1 dB point available
- Up to 5 hrs of battery backup option available
- SMA/TNC input/output connector available
- External reference could be set to 5MHz instead of 10MHz

Data sheet is for information purposes only and may be subject to modifications or may be discontinued without notice. *Rev. 1 dated 02-01-2015*