

UPC0014C

UP-CONVERTER

Model Type: **UPC0014C**

This device contains a microcontroller programmed in C language that enables automatic functioning of the system and interfacing with the remote computer (host computer).

This technology allows easy use of the Up-Conversion system: the operator can set up the signal attenuation required by the Up-Link system, while frequency is set up in laboratory.

The L Band input is 950-1700 MHz and the Ku Band output is 12.75-13.50 GHz.



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Up-converter
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Mechanical Specification

Mechanical construction	1U 19" standard rack, 350mm deep
Weight	2 Kg
Temperature	0°C to 50°C operating -20°C to 70°C storage
Relative humidity	0 to 90% operating 0 to 98% storage
MTBF	150000 h

Technical Specification

Alarm interface (Power ON)	Dry contact N.O. and N.C. through DB9 female connector
Alarm interface (PLL)	Dry contact N.O. and N.C. through DB9 female connector
Serial interface	RS232 or RS422 through DB9 female connector (Setting through internal menu)
Input frequency	950 to 1700MHz
Output frequency	12750 to 13500MHz
Frequency stability	±5 E-9 ppm/day
Intermodulation IM3	>30dBc
Noise figure	<20dBm
Group delay	<10nsec
L.O.	11800MHz
Input VSWR	>15dB
Output VSWR	>15dB
Input Attenuator	from 0 to 31dB
Attenuation step size	1dB
Input impedance	50 Ohm
Output power	>15dBm (@1dB compression point)
Gain	>25
Gain flatness full Band	±2dB max
Gain flatness 40MHz	±0.2dB max
Gain stability	±0.5dB/day
Compression point	>15dBm @ 14125MHz
Phase noise 12800MHz	@100Hz -65dBc/Hz max @1KHz -75dBc/Hz max @10KHz -90dBc/Hz max @100KHz -110dBc/Hz max @1MHz -120dBc/Hz max
RF Inhibit attenuation	>30dB
L.O. leakage	<-55dBm
Spurious correlated	>50dBc
Spurious no-correlated	<-70dBm

General

L Band input impedance	50 Ohm @ SMA connector
Ku Band output impedance	50 Ohm @ SMA connector
Primary power requirements	90 to 230V AC ± 10%, 50Hz to 60Hz, 80VA max
Input signal TX	L Band through SMA 50 Ohm female connector
Output signal TX	Ku Band through SMA 50 Ohm female connector
RF output monitor	Ku Band through SMA 50 Ohm female connector Coupler 25 DB

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