

UPC0022A

UP-CONVERTER
L-Ku Band

Model Type: **UPC0022A**

This device contains a microcontroller programmed in C language that enables automatic functioning of the system.

The L Band input is 950-1700 MHz and the Ku Band output is 12.75-13.50 GHz.
The case used is IP65 waterproof with standard interface for mechanical mount.



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Up-converter
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UP-CONVERTER L-Ku Band

Mechanical Specification

Mechanical construction:	IP65 -215x100x250mm (LxHxP)
Weight:	2 Kg
Temperature:	-40°C to 55°C operating
Relative humidity:	5 to 100%
MTBF	150000 h

General Specification

L Band input impedance	50 Ohm @ N connector
Ku Band output impedance	50 Ohm @ N connector
Reference signal frequency	10MHz
Reference signal level	-5 to +10dBm
Primary power requirements	18 to 24V DC
Absorbed current	<1A
Input signal TX	L Band through N 50 Ohm female connector
Output signal TX	Ku Band through N 50 Ohm female connector

Technical Specification

Alarm interface (Power ON)	Dry contact N.O. and N.C. through 6poles MIL female connector
Alarm interface (PLL)	Dry contact N.O. and N.C. through 6poles MIL female connector
Input frequency	950 to 1700MHz
Output frequency	12750 to 13500MHz
Frequency stability	±5 E-9ppm/day
Intermodulation IM3	>30dBc
Noise figure	<20dBm
Group delay	<10nsec
L.O.	11800MHz
Input VSWR	>15dB
Output VSWR	>15dB
Input impedance	50 Ohm
Output 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 11800MHz	@100Hz -65dBc/Hz max @1KHz -75dBc/Hz max @10KHz -90dBc/Hz max @100KHz -110dBc/Hz max @1MHz -120dBc/Hz max
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RF Inhibit attenuation	>30dB
L.O. leakage	<-55dBm
Spurious correlated	>50dBc
Spurious no-correlated	<-70dBm

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