

### Features

- Excellent phase noise
- Fine frequency step
- Low intermodulation distortion
- Dual conversion
- Built-in high stability internal reference
- High reliability
- Remote / manual control
- 1:1 Redundancy

### Specifications

Ext C-BAND 1:1 UP CONVERTER		
Input Frequency Range		70±20 MHz
Configuration		1:1 Redundancy
Input Return Loss		23 dB min.
Input Impedance		50 ohms
Output Frequency Range		6725 - 7025 MHz
Conversion		Dual Conversion, No Inversion
Step Size		125 KHz
RF Output Level		≥+10dBm
Carrier Mute		>-60 dBc
Spurious	Non-Carrier Carrier-Related	<-70 dBm <-60 dBc
Intermodulation distortion		-50 dBc @ 0dBm each 1MHz apart
Output Impedance		50 Ohms
Output Return Loss		18 dB min.
Gain (RF to IF)		30 dB min.
Gain Flatness		±0.25 dB @±20MHz
Gain Stability		±0.25dB/Day max.
IF Bandwidth		40 MHz
External Reference		10MHz @ +3 dBm
Phase Noise @ offset		100 Hz : -70 dBc/Hz 1K Hz : -79 dBc/Hz 10K Hz : -89 dBc/Hz 1M Hz : -99 dBc/Hz 10M Hz : -109 dBc/Hz
Redundancy Configuration		2 Converters configured in 1:1. The switching control unit & RF/IF switch are placed inside/outside of the converter. IF/RF & data cables are externally Interface.

Ext C-BAND 1:1 UP CONVERTER	
Remote Control Interface	RJ-45 LAN Port: SNMP & Remote Control protocol details to be provided for monitoring & control.
Front Panel display	Suitable LCD display for displaying important parameters such as Frequency, Attenuation /Gain & Mute/Transmit status etc.
Front Panel Indicators (LED)	Power ON/OFF, Mute ON/OFF, Local /Remote
IF/RF Interface	RF In: SMA (F)/ N (F) IF Out: BNC (F)/ N (F)
Power	Power ON Switch, 230 VAC±10%, 50 Hz±3Hz
Power Input Connector	IEC-60320-C13/C14 or Equivalent
Storage Temperature	-20 to 70 ° C
Operating Temperature	+5 to 45 ° C
Humidity	Up to 95 % RH, Non-Condensing
Mechanical	19" Rack Mountable ( 1RU) each converter. Combined will be 3RU max including switch
Protection	IP65 enclosure

## Applications



Aerospace



Defence



Satcom



Broad Casting

