

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 DOWN CONVERTER		
Input Frequency Range	4500MHz to 4800MHz	
Configuration	1:1 Redundancy	
Input Return Loss	20 dB min.	
Input Impedance	50 ohms	
Output Frequency Range	70±20 MHz	
Conversion	Dual Conversion, No Inversion	
Step Size	125 KHz	
RF Output Level	≥+12dBm	
Carrier Mute	>-60 dBc	
Spurious	Non-Carrier	<-70 dBm
	Carrier-Related	<-60 dBc
Intermodulation distortion	-50 dBc @ 0dBm each 1MHz apart	
Output Impedance	50 Ohms	
Output Return Loss	23 dB min.	
Image Rejection	80dB min.	
Noise Figure	<12dB @ max gain	
Gain (RF to IF)	45dB ±2dB.	
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 DOWN 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	0 to 50 ° 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

