



Features

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

Specifications

S-BAND UP CONVERTER	
Input Frequency Range	70 MHz
No. of Channel	1
RF Output Frequency	2025 - 2110 MHz
IF Filter 3dB Bandwidth	10 MHz (IF \pm 5MHz)
IF Filter Rejection	\geq 40 dB at IF \pm 20 MHz
LO modes	Internal and External
RF Output frequency selection	1) Local selection through front panel keys and 2) Remote selection through GUI application
Frequency resolution	\leq 1 kHz step
Internal Reference frequency stability	\pm 0.2 ppm (Max.) over a day (24 Hrs)
External LO Amplitude level	+8 dBm to +12 dBm (Max.) at the Ext. LO connector input
Conversion gain	20 dB (Min)
Gain stability	\pm 1 dB (Max.) over a day (24 Hrs)
Input Dynamic Range	-20 dBm to -80 dBm
Return loss	\geq 20 dB at all Input and Output ports
Spurious at RF output	\leq -50 dBc
Harmonics at RF output	\leq -30 dBc
LO Phase noise	a) At \pm 1 KHz b) At \pm 10 KHz c) At \pm 100KHz
	a) \leq -90 dBc/Hz b) \leq -95dBc/Hz c) \leq -100 dBc/Hz
External Reference	10 MHz
Isolation between ports	\geq 50 dB
LO leakage at RF output port	-80 dBm or below
Input Impedance	50 ohms
Output Impedance	50 ohms

Note: *This is the Standard Datasheet... Customized Specifications can be done.

S-BAND UP CONVERTER	
Coupling at RF monitoring	-10 dB ± 1 dB w.r.t RF output
Coupling at LO monitoring	-10 dB ± 1 dB w.r.t LO set level
Interface Connectors	N-Type (Female)
External LO Port	N-Type (Female)
External Reference Port	N-Type (Female)
RF Monitoring Port	N-Type (Female)
LO Monitoring Port	N-Type (Female)
Remote control interface	Ethernet-LAN
Display parameters on Unit & GUI	Output RF frequency, External reference lock indication status, LO external/Internal indication.
Front panel Display Type	LCD display
Local control through Front panel keypad	Functional keys on the front panel to set required RF Output Frequency, Frequency step
Remote control through GUI	Monitoring and control of RF Output Frequency, Frequency step etc.
Operating Temperature	+10 to +50° C
Supply Voltage	230±10% V AC, 50 Hz
Enclosure	19" rack mountable, 2U height max

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Applications



Aerospace



Defence



Satcom



Broad Casting

