

### Specifications

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



S-BAND DOWN CONVERTER	
RF Input Frequency	2200 – 2300 MHz
IF Output Frequency (IF)	70 MHz
No. of Channels	01
IF Filter 3 dB Bandwidth	10 MHz (IF ± 5MHz)
IF Filter Rejection	≥ 40 dBc at IF ± 20MHz
LO modes	Internal and External
RF input frequency selection	1) Local selection through front panel keys and 2) Remote selection through GUI application 3) Provision to set/read RF input frequency in both Local and remote modes.
Frequency resolution	≤ 1 kHz step
Internal Reference frequency stability	± 0.2 ppm (Max.) over a day (24 Hrs)
External LO Amplitude level	+8 to +12 dBm at the Ext. LO connector input
Conversion gain	20 dB (Min)
Gain stability	± 1 dB (Max.) over a day (24 Hrs)
Conversion Sense	No Inversion (LO Frequency has to be less than RF Frequency)
Input Dynamic Range	-20 dBm to -80 dBm
Return loss	≥ 20 dB at all Input and Output ports
Spurious at IF output	≤ -50 dBc
Harmonics at IF output	≤ -30 dBc
LO Phase noise	a) At ± 1 kHz b) At ± 10 kHz c) At ± 100KHz
	a) ≤ -90 dBc/Hz b) ≤ -95 dBc/Hz c) ≤ -100 dBc/Hz
External Reference	10 MHz
Isolation between Ports	≥ 50 dB
LO leakage at IF output	-80 dBm or below
Input & Output Impedance	50 ohms
Coupling at RF monitoring	-10 dB ± 1 dB w.r.t RF output

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

S-BAND DOWN CONVERTER	
Coupling at LO monitoring	-10 dB ± 1 dB w.r.t LO set level
Coupling at IF monitoring	-10 dB ± 1 dB w.r.t IF output
Interface Connectors	N Type (Female)
External LO 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	RF input Frequency, External reference lock indication status, LO external/Internal indication status
Front panel Display Type	LCD display
Local control through Front panel keypad	Functional keys on the front panel to set RF input Frequency, Frequency step
Remote control through GUI	Monitoring and control of RF input 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

