

**2 CHANNELS S-BAND  
TRACKING DOWN-CONVERTER**

- **LOW PHASE NOISE**
- **FINE FREQUENCY STEP**
- **LOW INTERMODULATION DISTORSION**
- **LOW POWER CONSUMPTION**
- **HIGH RELIABILITY**

This down converter is intended for use in professional applications in S band such as satellite earth stations. It has low phase noise properties, making it possible to receive very weak signals close down to the thermal noise floor.

**Electrical characteristics:**

<b>RF Frequency Input Characteristics</b>	
Numbers of channels	2
Frequency	3625 – 4200 MHz
Impedance	50 ohm
VSWR	$\leq 1.3$ dB
Input connector	N female
<b>Intermediate Output Characteristics</b>	
Frequency	70 MHz
Impedance	50 ohm
VSWR	$\leq 1.3$ dB
Output connector	N female
<b>Transfer characteristics</b>	
Conversion type	Dual Conversion
Gain	50 dB adjustable
Gain stability	$\pm 1$ dB / day (at constant temperature)
Frequency	1 kHz
Spurious in BW	$\leq 40$ dBc
Frequency stability	$\pm 1 \times 10^{-6}$
Noise figure	12 dB max.
Image rejection	70 dBc typ. (60 dBc min.)
Phase tracking between channels	$< 10^\circ$ RMS after 1 hour warm up with constant temperature
Output spurious	-60 dBc signal related
Output signal level (1dB compression)	+ 10 dBm min.
Bandwidth	15 MHz at 1 dB typ.
Isolation between channels	60 dB typ.
Typical phase noise	-70 dBc @ 100 Hz -80 dBc @ 1 kHz to 30 kHz -95 dBc @ 100 kHz
Manual control	Display with functional keys in front panel
Power line supply	230 V AC / 50 Hz
Monitoring and control	RS422 / RS485 with protocol
Operating temperature range	0 to 50°C

Specifications are subject to change without notice.

**Outline dimensions (mm):****1 U High 19" RACK**