

X-BAND LOW PHASE NOISE SYNTHESIZER

- **LOW PHASE NOISE**
- **EASY PROGRAMMING**
- **FINE STEP**
- **COMPACT DESIGN**

This synthesizer is intended for use in professional applications as programmable local oscillator, where clean output signal, high resistance against shocks and vibrations, compact size, easy handling and modest price are important factors. Main applications are in satellite and telecommunications systems, instrumentation.

Electrical characteristics:

Frequency Range	8.5 – 10.5 GHz
Frequency Accuracy	+/- 2ppm @ full temperature range
Tuning Range	2 GHz
Step Size	10kHz
Switching Speed	30msec typ, 100msec max
Output Power	+ 15 dBm (+/-3dB)
VSWR	1.5 : 1 max
Load Impedance	50 ohm
Spurious	-60 dBc typ. (-55 dBc max.)
Harmonics	< -30 dBc typ. (-20 dBc max.)
SSB Phase Noise	-90 dBc/Hz @ 10 kHz, -110 dBc/Hz @ 100 kHz
Phase Lock Alarm	3V CMOS “Hi” locked, 3V CMOS “Low” out of lock
Frequency Control	Serial BCD (3V CMOS) with Clock, Data, Latch
Reference Frequency (internal and external)	10MHz (automatic change over)
External Reference Level Range	-3dBm to +6dBm
Connectors	SMA-F for RFoutput and Ext.Ref., D-SUB9 male for DC@control
Operating Temperature Range	-40 to +70°C
DC Supply	+15V DC +/- 1V @ 1A max.
Outline Dimension	140 x 130 x 30 mm
Weight	cca. 900g

Specifications are subject to change without notice.

Outline dimensions (mm):

