



**BONN HUNGARY
ELECTRONICS**

**MICROWAVE
TRANCEIVER (FM-CW)
MODULE**

BUFEX
Family
NDS # 950

an ISO 9001 Certified Company



- **COMPACT MICROWAVE FRONT-END**
- **HIGH SENSITIVITY**
- **HIGH OUTPUT POWER**
- **VARACTOR-TUNING**

The BUFEX series transceiver modules are compact, low cost microwave front-ends. The basic version contains an X-band voltage controlled FET oscillator, a buffer amplifier, a drop-in circulator and a matched detector. Upon request higher (or lower) output power, modified frequency range or fixed frequency versions are also available.

Typical applications: FM-CW Radar, Doppler measurements, Material measurements, Process control, Remote sensing, Moisture measurements.

ELECTRICAL CHARACTERISTICS:

TRANSMITTER

Operating frequency range *	8 - 12 GHz
Output power (@ 25°C)	min. 16 dBm
Tuning bandwidth	typ. ±200 MHz
Tuning voltage	1 - 15 V
Spurious in band	max. -60 dBc
Harmonics	max. -20 dBc
Operating voltage / Current	+5V dc / max.100 mA

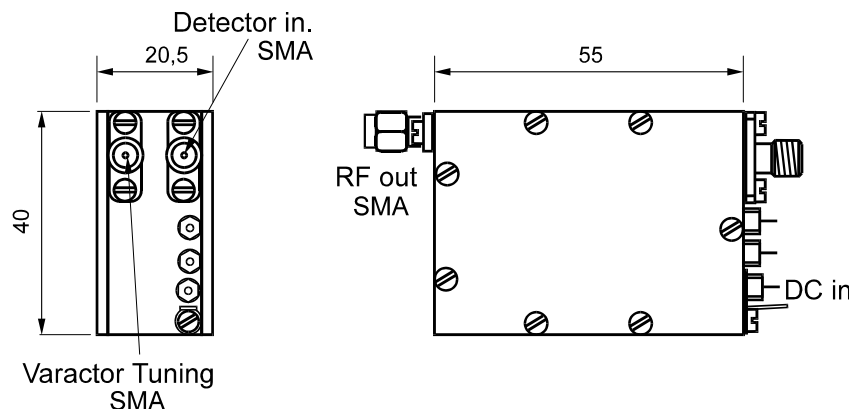
* Standard frequency band: 10.1-10.6 GHz

RECEIVER

Voltage sensitivity (@ -20 dBm RF level)	min. 1500 mV/ mW
Tangential sensitivity	min. -48 dBm
Output capacitance	typ. 2 pF
Output polarity	negative
Bias current	50 µA nominal

Operating temperature range: 0 – 50 °C

OUTLINE DIMENSIONS (mm):



BONN Elektronik
RF Systems, Instruments and Components



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