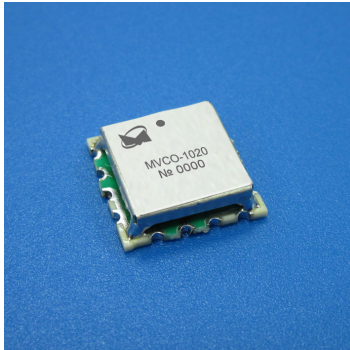


# MVCO -1020

## Voltage Controlled Oscillator 1-2 GHz



### FEATURES

- Small size
- Low phase noise
- High tuning linearity
- SMD

### OVERVIEW

Octave-band oscillator MVCO-1020 is intended for test&measurement, communications, and radar applications. Thoughtfully designed, it provides high repeatability, high reliability and low cost if mass produced. MVCO-1020 is manufactured under ISO 9000 standards.

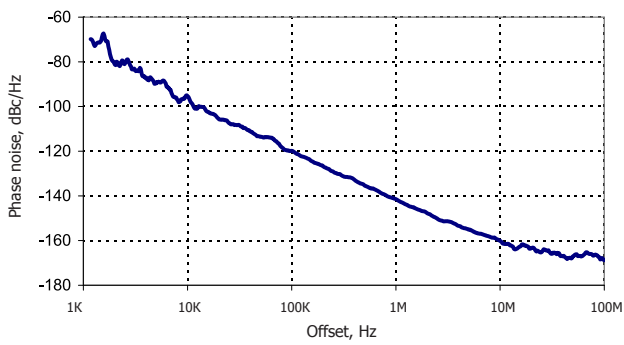
### ELECTRICAL SPECIFICATIONS

Parameter	Min	Max
Output frequency, MHz	900	2100
Phase noise at 100 kHz offset, dBc/Hz	-122	-113
Harmonics, dBc	-32	-13
Tuning voltage, V	0	20
Tuning sensitivity, MHz/V	30	130
Output power, dBm	3	7
Load, Ohm	50	
Input capacitance, pF	100	
Pushing, kHz/V		500
Pulling*, MHz	-12	12
Temperature range, °C	-40	85
Frequency vs Temperature, MHz	-18	18
Power vs Temperature, dB	1.5	
Supply voltage, V	4,8	5,2
Consumption current, mA	19	25

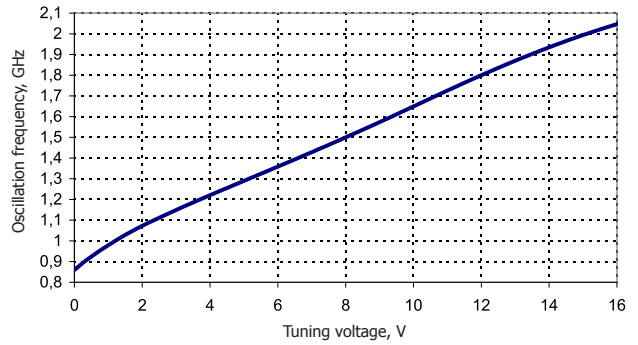
\*  $|S_{11}|$  of load is -10 dB,  $\arg(S_{11})$  of load is  $0^\circ \dots 360^\circ$

## TYPICAL CHARACTERISTICS (t=25°C)

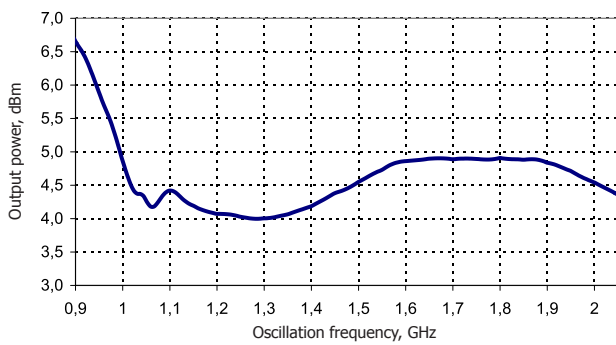
Phase noise (1) and tuning characteristics (2, 3, 4)



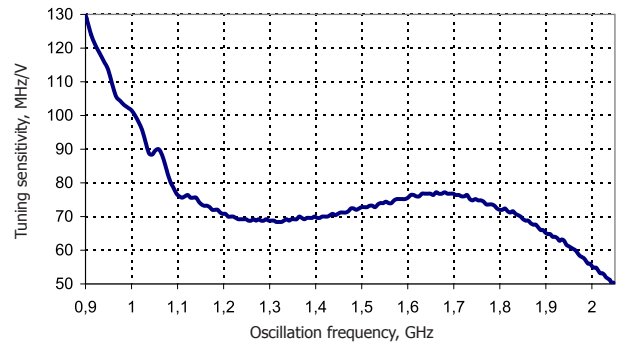
1)



2)

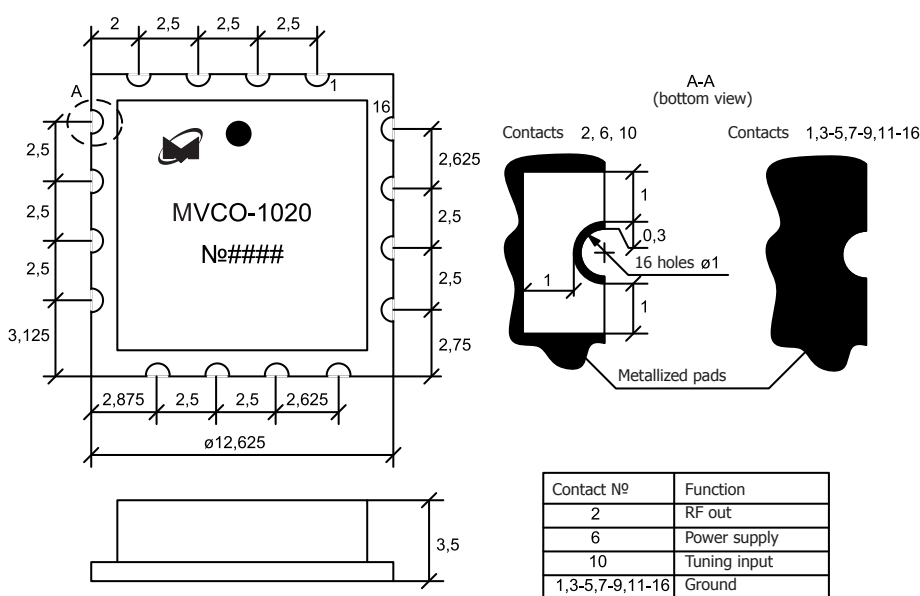


3)



4)

## MECHANICAL CHARACTERISTICS (mm)



**MVCO-1020**

- Upper frequency limit, MHz×100
- Lower frequency limit, MHz×100
- Voltage Controlled Oscillator
- Micran

Information in this datasheet may be changed, corrected and updated without preliminary notice.