

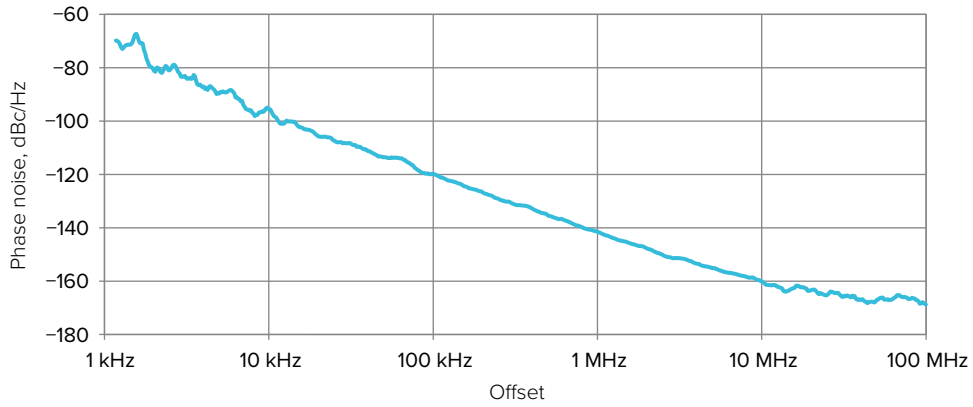
Voltage-controlled oscillator MVCO-1020

- Compact size
- High tuning linearity

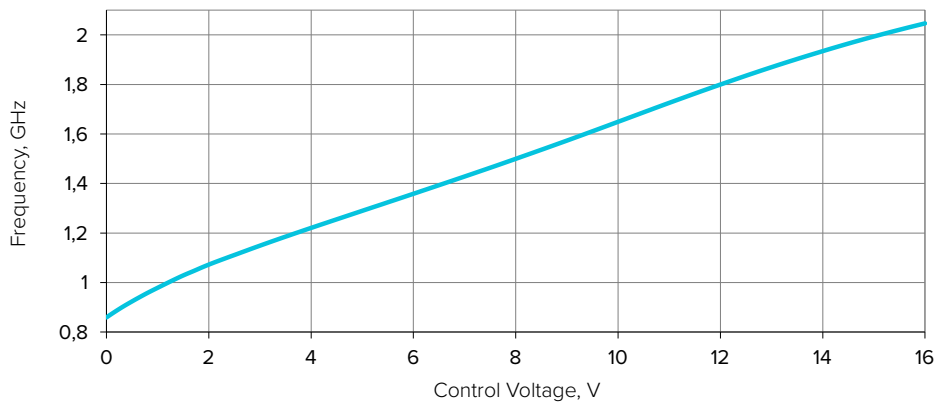


MVCO-1020 is an octave VCO that can be used in wideband PLL synthesizers for telecommunications and T&M equipment. High-quality components and careful design guarantees repeatability of parameters, high reliability and low cost at mass production stage.

Phase noise



Frequency tuning characteristic

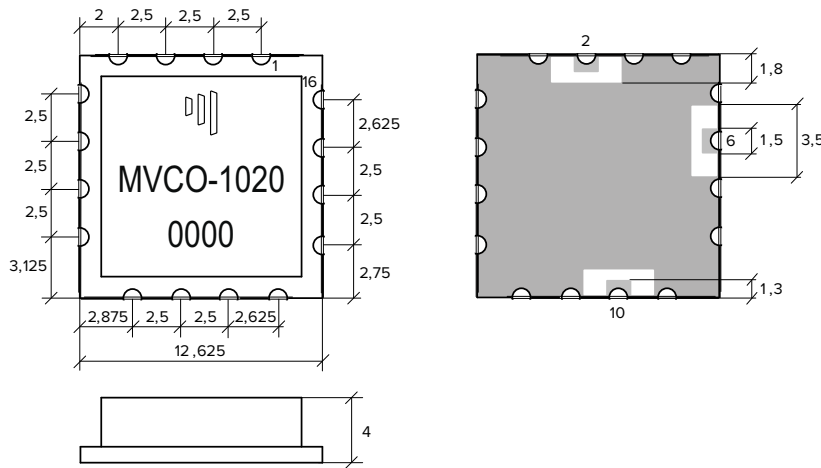


Technical Specifications

Output frequency, GHz	1...2
Phase noise @ 100 kHz offset, dBc/Hz	-122...-113
Output power with loading 50 Ohm, dBm	0...6
Second harmonic level, dBm	-32...-13
Control voltage, V	0...20
Tuning sensitivity, MHz/V	30...130
Output power, dBm, max.	3
Load impedance, Ohm	50
Input capacitance, pF	100
Pushing, kHz/V	± 500
Pulling*, MHz	± 12
Operating temperature, °C	-40...+85
Frequency change in operating temperature range, MHz	± 18
Output power change in operating temperature range, dB	1.5
Supply voltage, V	4.8...5.2
Current consumption, mA	20...40

* Load VSWR 2.0.

Overall and Mounting dimensions, mm



Pin number	Description
2	RF output
6	Supply voltage input 0...5 V
10	Control input 3.3...5 V
1, 3-5, 7-9, 11-16	Ground