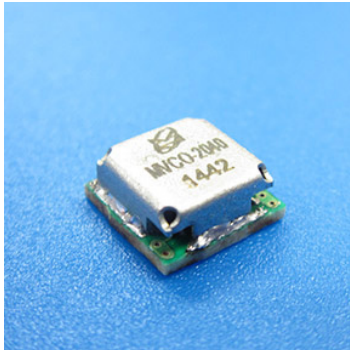


MVCO -2040-SF

Voltage Controlled Oscillator 2-4 GHz



FEATURES

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

OVERVIEW

Octave-band oscillator MVCO-2040-SF is intended for test&measurement, communications, and radar applications. Thoughtfully designed, it provides high repeatability, high reliability and low cost if mass produced. MVCO-2040-SF is manufactured under ISO 9000 standards.

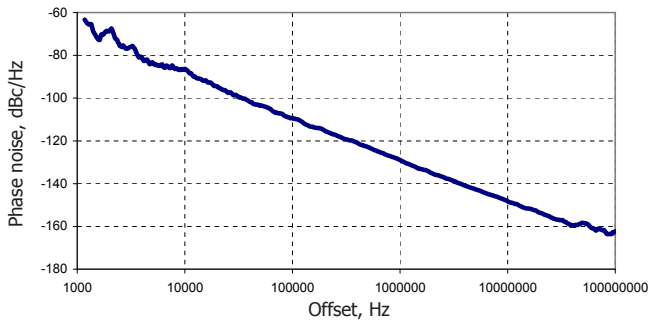
ELECTRICAL SPECIFICATIONS

Parameter	Min	Max
Output frequency, MHz	1600	4100
Phase noise at 100 kHz offset, dBc/Hz	-112	-106
Harmonics, dBc		-15
Tuning voltage, V	0	20
Tuning sensitivity, MHz/V	50	450
Output power, dBm	0	5
Load, Ohm	50	
Input capacitance, pF	50	
Pushing, kHz/V		1,5
Pulling*, MHz	-15	15
Temperature range, °C	-40	85
Frequency vs Temperature, MHz	-20	20
Power vs Temperature, dB	1,5	
Supply voltage, V	5	
Consumption current, mA	30	35

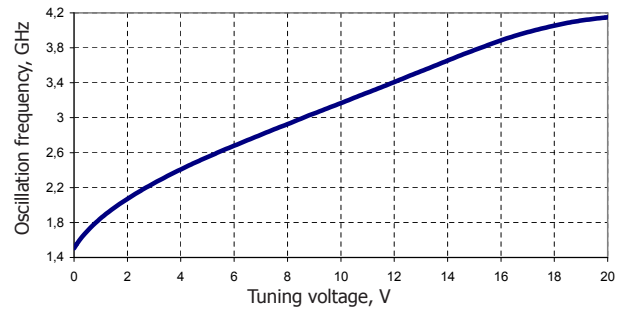
* $|S_{11}|$ of load is -10 dB, $\arg(S_{11})$ of load is $0^\circ \dots 360^\circ$

TYPICAL CHARACTERISTICS (t=25°C)

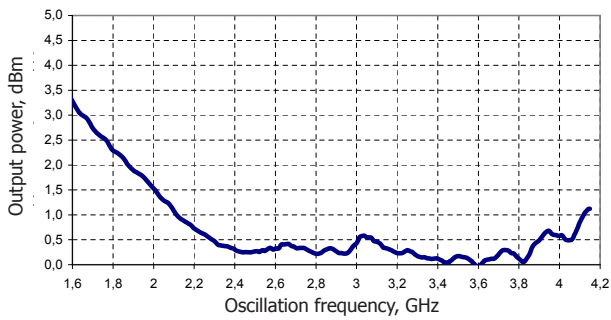
Phase noise (1) and tuning characteristics (2, 3, 4)



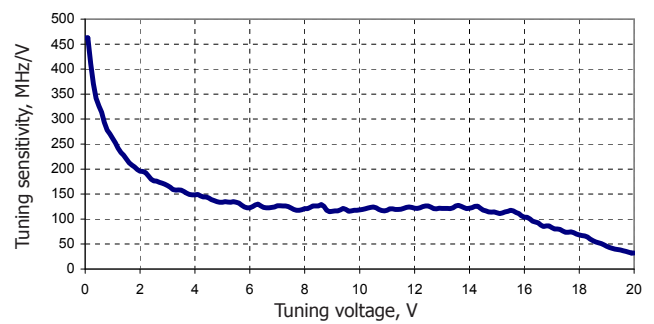
1)



2)

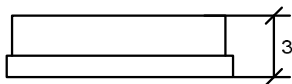
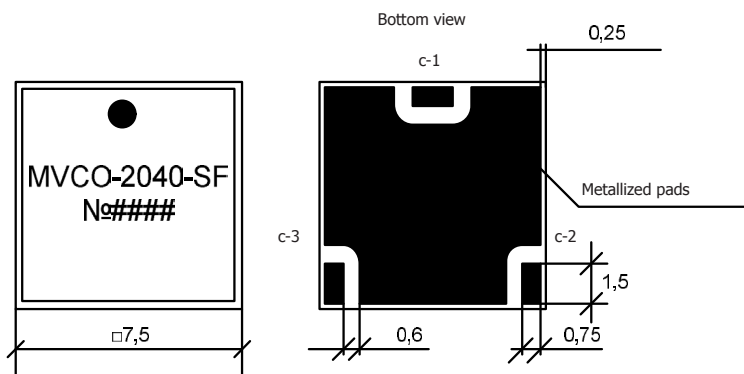


3)



4)

MECHANICAL CHARACTERISTICS (mm)



Contact №	Function
c-3	RF out
c-1	Power supply
c-2	Tuning input

MVCO-2040-SF

- Small footprint
- 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.