

Voltage Controlled Oscillator - VCO RQS-Series

Features

Applications

Frequency Range up to 3.5 GHz
Compatible to Murata MQE-series

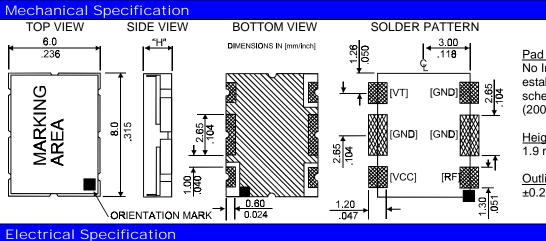
Low Profile, 1.9 mm

Low Power Consumption

- Wireless NetworksCordless Phones
 - Telecommunications
 - Telecommunication
 - Navigation

Description

The RQS-series is ideally suited for cost-sensitive applications. With its small dimensions and low power consumption, the RQS-series meets the requirements of portable and wireless applications. A high degree of process-automation ensures consistent performance at high volume and lowest cost.



COMMENTS

Pad / Functions: No Industry-standard is established for numbering scheme of 6x8 package. (2001/2002)

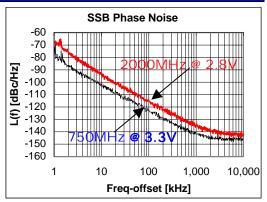
Height "H" (max): 1.9 mm / .075"

Outline Tolerances: ±0.20mm / ±.008"

PARAMETER COMMENTS, EXAMPLES SYMBOL MIN TYP UNIT MAX Max Frequency Currently available in RQS-package 2500 MHz fo Tuning Ratio Ratio of upper-to-lower freq (2 = "Octave-VCO") f-up : f-low 1.1 2.0 -Tuning Voltage Range is typ. 2V for battery-operated applications V Vt 0~2 0~5 3.3 Supply Voltage Mobile devices typ. operated at 2.7V and up Vcc 2.7 V Dependent on Frequency and Output Power 25 Supply Current Icc 6 15 mΑ Output Power Output Power Tolerance is typically ±3dB Pout -3 0 +5 dBm Harmonic Suppression Dependent on Tuning Range and Frequency a(2fo) -10 dBc Dependent on Freq, Tuning R., typ 0.5%~1% fo df/dVcc 2 5 10 MHz/V Pushing Dependent on Freq, Output Power and Circuit. df/dZL 2 Pulling 5 10 MHz

General Specification

- 1. Load Impedance is 50 Ohms.
- 2. Operating temperature range is typically -40°C...+85°C.
- 3. The package is non-hermetic. Substrate is glass-reinforced laminate, the cover is folded nickel-silver.
- 4. Bypass-capacitors (ceramic) from Vcc to Ground are recommended: 1nF||100pF.
- 5. Customized specifications may deviate from this General Specification.
- 6. Phase-noise performance depends on the individual specification. Phase Noise is strongly dependent on (a) frequency (b) supply voltage and (c) tuning range.
- 7. The phase noise graph (to right) shows the characteristic of two typical RQS-VCOs at 0dBm output power, ±1% tuning range and 3.3V / 2.8V supply voltage.



Phase Noise Examples

CEOB2B晶振平台-全球最专业的晶振在线采购查询平台http://www.crystal95.com