EUROQUARTZ

HSR53 Sine Wave Oscillators

5 x 3.2 x 1.0mm SMD — 10.0MHz to 30.0MHz

FEATURES

- **Sine Wave output in miniature SMD package**
- **Output 10kΩ//10pF load, level 1.0V peak to peak**
- **Harmonics -25dBc maximum**
- **Very low current consumption <1.0mA at 2.8V supply**

RoHS

DESCRIPTION

HSR53 sine wave clock oscillators provide a true sine wave out output while being packaged in the industry-standard, 5 x 3.2mm SMD outline package. The oscillator is capable of being produced with close tolerances and exhibits low current consumption.

SPECIFICATION

Frequency Range:	10.0MHz to 30.0MHz
Input Voltage:	+2.8 VDC, +3.3 VDC or +5.0 VDC
Output Wave Form:	True sine wave
Frequency Stability	
Commercial 0~70°C:	±25ppm, ±50ppm or ±100ppm*
Industrial -40 ~+85°C:	±25ppm, ±50ppm or ±100ppm*
Output Level:	10kΩ//10pF load, level 1.0V p-p
Harmonics:	-25dBc maximum
Phase Noise:	-130 dBC/Hz at 1kHz offset
Current Consumption	
Supply 2.8 VDC:	1.0mA
Supply 3.3 VDC:	1.1mA
Supply 5.0 VDC:	1.2mA
Start-up Time:	2.0ms typical
Storage Temperature:	-55° to +125°C
Sub-Harmonics:	None
Ageing:	±5ppm/year
Enable/Disable Option:	Output is high impedance when pad 1 is taken LOW.
Disable time:	150ns maximum *(Add 'T' to the part number code for this option.)*
RoHS Status:	Fully compliant

** Non-standard frequency stability is available, check with sales.*

PART NUMBERING

Example: 3HSR53-B-T-25.000-X

Supply Voltage
- 28 = 2.8 Volts
- 3 = 3.3 Volts
- 5 = 5.0 Volts

Series Designation HSR53

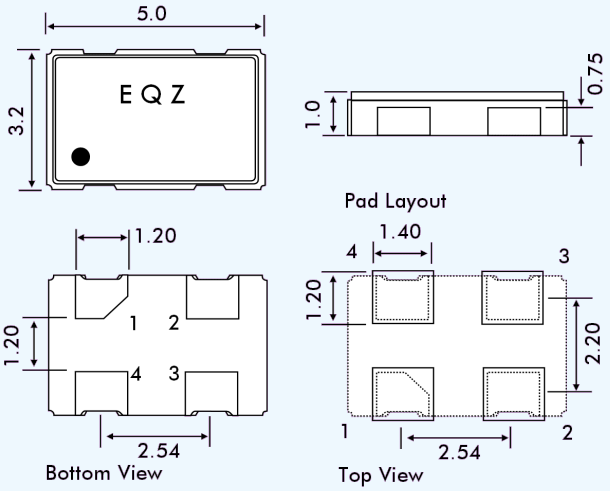
Stability
- A = ±25ppm 0° to +70°C
- B = ±50ppm 0° to +70°C
- C = ±100ppm 0° to +70°C
- D = ±25ppm -40° to +85°C
- E = ±50ppm -40° to +85°C
- F = ±100ppm -40° to +85°C

Enable/Disable Option
- Blank = Not implemented
- T = Option implemented

Frequency

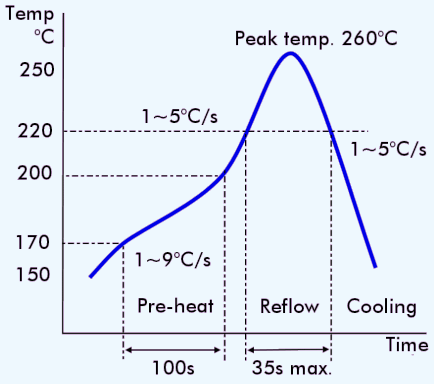
Customer-Specific Code
(*Included if specified by engineering department.*)

OUTLINE & DIMENSIONS



Pad Connections
1 Enable/disable
2 Ground
3 Output
4 Supply Voltage

SOLDER TEMPERATURE PROFILE



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