

FEATURES

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

**DESCRIPTION**

HSR53 sine wave clock oscillators provide a true sine wave 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:	± 25 ppm, ± 50 ppm or ± 100 ppm*
Industrial -40 ~ +85°C:	± 25 ppm, ± 50 ppm or ± 100 ppm*
Output Level:	10k Ω /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:	± 5 ppm/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**

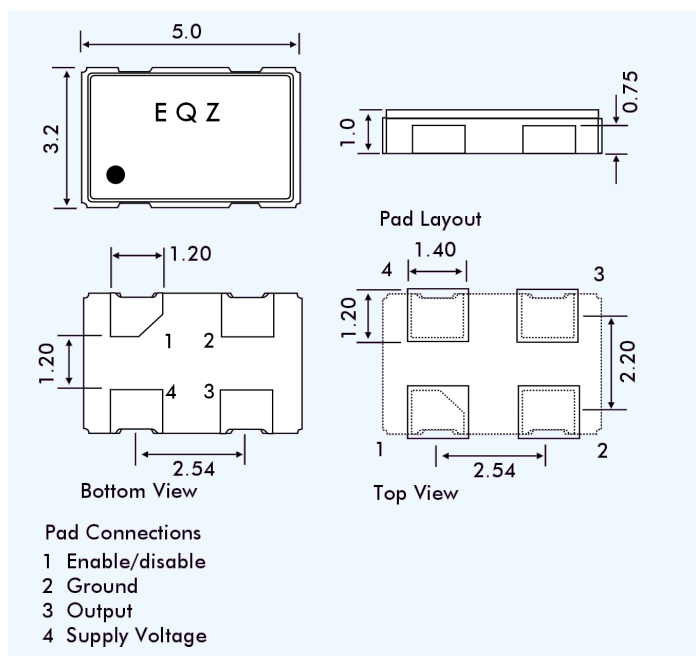
A = ± 25 ppm 0° to +70°C
B = ± 50 ppm 0° to +70°C
C = ± 100 ppm 0° to +70°C
D = ± 25 ppm -40° to +85°C
E = ± 50 ppm -40° to +85°C
F = ± 100 ppm -40° to +85°C

Enable/Disable Option

Blank = Not implemented
T = Option implemented

Frequency**Customer-Specific Code**

(Included if specified by engineering department.)

OUTLINE & DIMENSIONS**SOLDER TEMPERATURE PROFILE**