

## 5 x 3.2mm SMD Sine Wave Clock Oscillator

### 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

### 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.

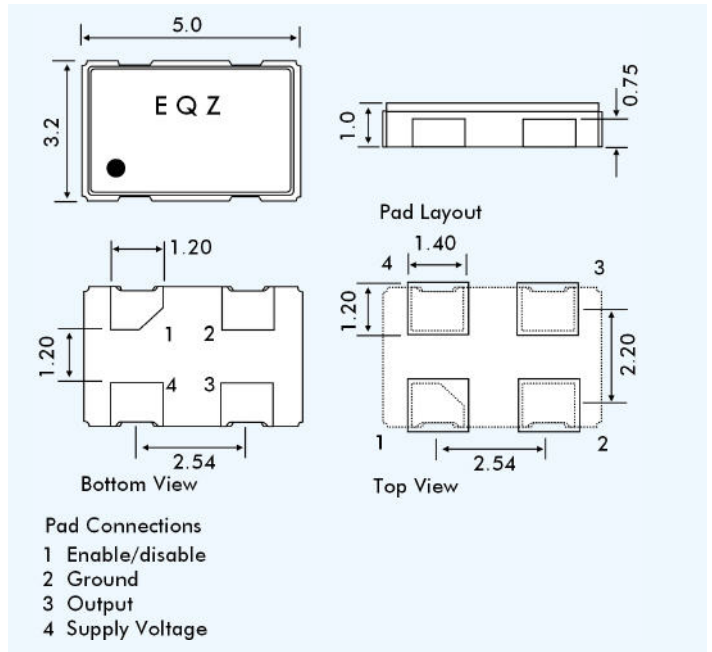
### PART NUMBERING

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

Supply Voltage	3
28 = 2.8 Volts	
3 = 3.3 Volts	
5 = 5.0 Volts	
Series Designation HSR53	HSR53
Stability	B
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	T
Blank = Not implemented	
T = Option implemented	
Frequency	25.000
Customer-Specific Code	X
(Included if specified by engineering department.)	



### OUTLINE & DIMENSIONS



### SOLDER TEMPERATURE PROFILE

