

FEATURES

- Sine Wave output in small 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

HSR57 sine wave clock oscillators provide a true sine wave out output while being packaged in the industry-standard, 7 x 5mm 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. 150ns maximum (Add 'T' to the part number code for this option.)
Disable time:	
RoHS Status:	Fully compliant

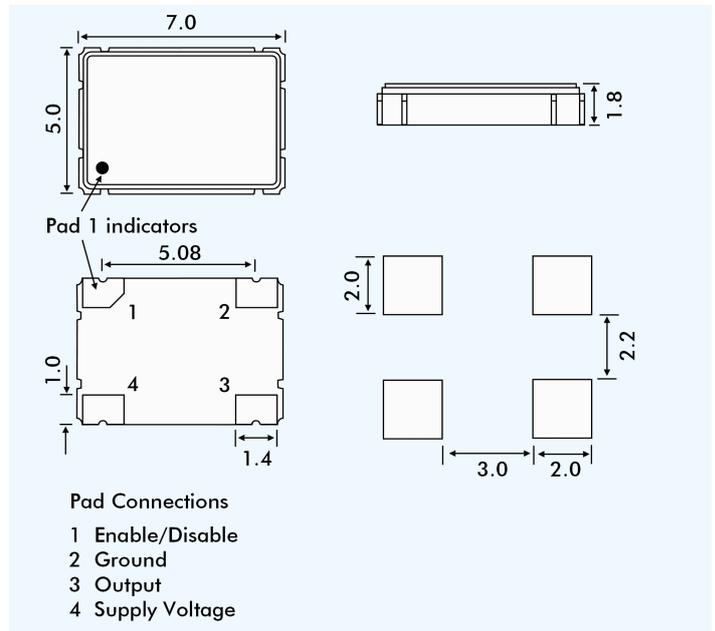
* Non-standard frequency stability is available, check with sales.

PART NUMBERING

Example: **3HSR57-B-T-25.000-X**

Supply Voltage	
28 = 2.8 Volts	
3 = 3.3 Volts	
5 = 5.0 Volts	
Series Designation HSR57	
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



SOLDER TEMPERATURE PROFILE

