

FEATURES

- Sine Wave output in industry-standard 14 DIL package
- Choice of output loads
- Harmonics -25dBc maximum
- Very low current consumption <1.0mA for HSR14



DESCRIPTION

HS14 sine wave clock oscillators provide a true sine wave output while being packaged in the industry-standard, 14 pin DIL outline package. The oscillator is capable of being produced with close tolerances and exhibits low current consumption.

SPECIFICATION

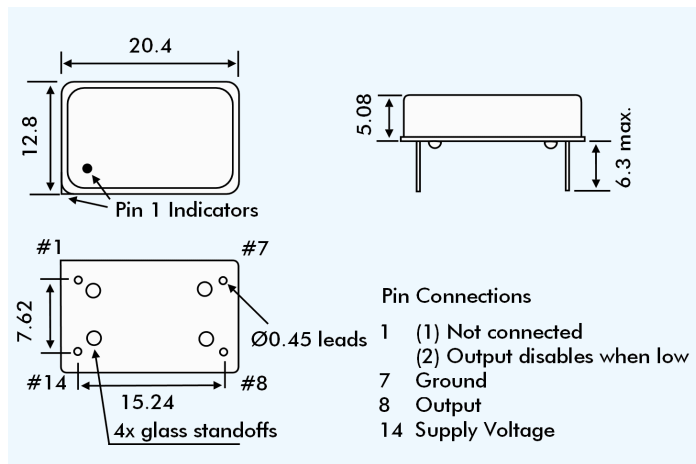
Frequency Range	
HS14 at 3.3 Volts:	10.0MHz to 800.0MHz
HS14 at 5.0 Volts:	10MHz to 156.0 MHz
HSR14:	10MHz to 30MHz
Input Voltage	
HS14:	+3.3V or +5.0VDC $\pm 5\%$
HSR14:	+2.8V, +3.3V or +5.0VDC $\pm 5\%$
Output Wave Form:	True sine wave
Frequency Stability	
0~70°C:	$\pm 25\text{ppm}$, $\pm 50\text{ppm}$ or $\pm 100\text{ppm}^*$
-40 ~+85°C:	$\pm 25\text{ppm}$, $\pm 50\text{ppm}$ or $\pm 100\text{ppm}^*$
Output Level	
HS14:	0dBm into 50 Ohms <5dBm available
HSR14	10k Ω /10pF load, level 1.0V p-p
Harmonics:	-25dBc maximum
Phase Noise:	-130 dBc/Hz at 1kHz offset
Current Consumption:	See table
Start-up Time:	2.0ms typical
Storage Temperature:	-55° to +125°C
Sub-Harmonics:	None
Ageing: $\pm 5\text{ppm}/\text{year}$	
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:	Compliant and Non-compliant versions are available.

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

CURRENT CONSUMPTION

Type/Frequency	Supply Voltage ($\pm 5\%$)		
	+2.8	+3.3V	+5.0V
HS14 10MHz	-	9mA	18mA
HS14 100MHz	-	18mA	34mA
HS14 150MHz	-	19mA	36mA
HSR14 10MHz	1.0mA	1.1mA	1.2mA

OUTLINE & DIMENSIONS



PART NUMBERING

