



YH1320/1321 Series OCXO

10 MHz – 120 MHz
(Rev F)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

Very Low Phase Noise
HCMOS or Sinewave Output
Ideal for Base Station or Test Equipment Apps

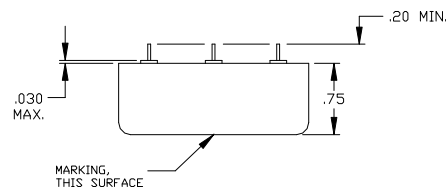
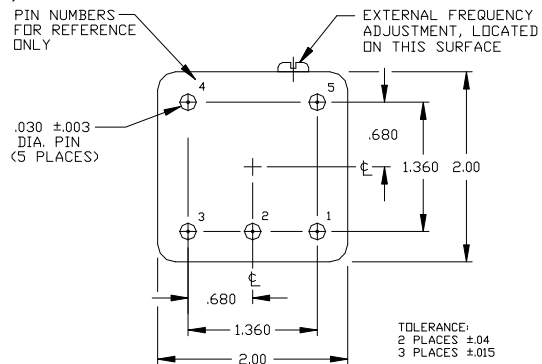
SPECIFICATIONS

Frequency Output	10.0 MHz to 120.0 MHz				
	YH1320 – Squarewave, HCMOS				
	YH1321 - Sinewave, +10dBm min into 50 ohms				
Harmonics	-20dBc (Sinewave)				
Temp Stability	Temp Range	10MHz Tol	Model	100MHz Tol	Model
	0 to +50°C	± 1x10 ⁻⁸	B18	± 5x10 ⁻⁸	B58
	-10 to +60°C	± 1.5x10 ⁻⁸	G158	± 7x10 ⁻⁸	G78
	-20 to +70°C	± 2x10 ⁻⁸	N28	± 1x10 ⁻⁷	N17
	-40 to +85°C	± 5x10 ⁻⁸	T58	± 3x10 ⁻⁷	T37
Freq vs. Supply Aging	±5x10 ⁻⁹ for a 5% change				
Input Voltage	±1x10 ⁻⁷ per year (10MHz); ±5x10 ⁻⁷ per year (100MHz)				
Input Power	+12 VDC ± 5%				
	Turn-on - ≤ 6W for 5 minutes				
	Idle - ≤ 2.5W @ +25°C				
Warm-up Time	within ± 5x10 ⁻⁸ in 5 minutes, ref to 60 minute frequency @ +25°C				
Phase Noise (Sine Max)		10MHz Std	10MHz Ultra-Low	100MHz Std	100MHz Ultra-Low
	10 Hz	-125 dBc/Hz	-128 dBc/Hz	-85 dBc/Hz	-90 dBc/Hz
	100 Hz	-150 dBc/Hz	-155 dBc/Hz	-115 dBc/Hz	-120 dBc/Hz
	1 kHz	-160 dBc/Hz	-163 dBc/Hz	-145 dBc/Hz	-150 dBc/Hz
	10 kHz	-165 dBc/Hz	-168 dBc/Hz	-160 dBc/Hz	-165 dBc/Hz
	100 kHz	-165 dBc/Hz	-168 dBc/Hz	-165 dBc/Hz	-168 dBc/Hz
Frequency Adjust	±1.0 ppm typ, positive slope				
	+0.5 to +5.0V EFC				
Shock	MIL-STD-202, Method 213, Condition C				
Vibration	MIL-STD-202, Method 204, Condition A				

Ordering Example: YH1321 - N28 - UL - 10.0MHz
(Model# - Stability - Phase Noise Opt - Frequency)

PIN CONNECTIONS

- 1 - EFC
- 2 - No Connection
- 3 - Output
- 4 - 0V, Case Gnd
- 5 - Input Voltage



To inquire about available custom parameters, please contact us at sales@greenrayindustries.com.

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