



GREENRAY INDUSTRIES, INC.

YH1320 Series **OCXO**
10.0MHz – 100.0 MHz

PRECISION QUARTZ TECHNOLOGY

Low Phase Noise OCXO
HCMOS or Sine Wave Output
Ideal for Cellular Base Station, Test Equipment Apps
SC-cut Crystal

SPECIFICATIONS

Frequency	10.0 MHz to 100.0 MHz		
Output	+10 dBm min. Sine Wave or HCMOS		
Input Voltage	+12 Vdc ± 5%		
Harmonics	-20 dBc min.		
Input Power; Warm-up @25°C	6.0 W		
Steady State @25°C	< 2.0 W		
Operating Temperature/Stability	Temperature Range	Tolerance	Model
	0 to +50°C	± 1 x 10 ⁻⁸	B18
	-10 to +60°C	± 1.5 x 10 ⁻⁸	G158
	-20 to +70°C	± 2.0 x 10 ⁻⁸	N28
	-40 to +85°C	± 5.0 x 10 ⁻⁸	T58
Warm-up Time	± 5 x 10 ⁻⁸ in 5 min. ref. to 60 min. Frequency @ +25°C		
Frequency Control Pin 1	> ± 0.5 ppm		
Freq. vs. Input Voltage ±5%	± 5.0 x 10 ⁻⁹		
Freq. vs. Load (vswr = 1.5 :1)	± 5.0 x 10 ⁻⁹		
Aging	±5.0 x 10 ⁻¹⁰ per day after 30 days		
Phase Noise	Offset Frequency (Hz)	dBc/Hz	
	Model #:	YH1320	YH1321
(Typical @ 10 MHz	10	-110	-125
Sine Wave output)	100	-135	-145
	1K	-145	-160
	10K	-155	-163
	100K	-155	-165
Shock (optional)	MIL-STD-202, Method 213, Condition C		
Vibration (optional)	MIL-STD-202, Method 204, Condition A		

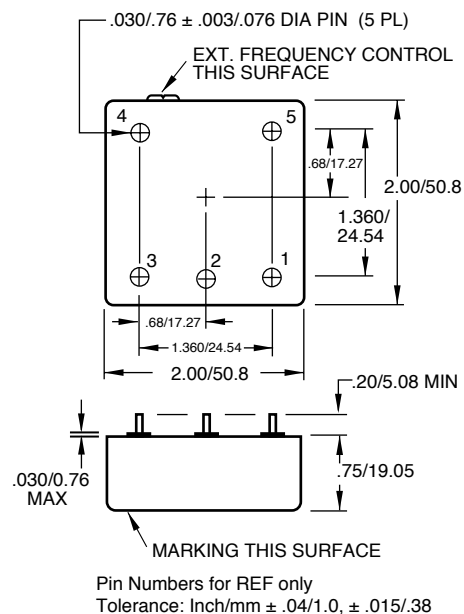
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Model	Input Voltage	Output	Temperature Stability Options		
YH1320	+12.0 Vdc	HCMOS	B18	N28	G158
YH1321	+12.0 Vdc	Sine Wave	B18	N28	G158

Ordering Example: YH1320 - B - 18 - 10.0 MHz
(Model# - Stability - Frequency)

- PIN CONNECTIONS**
- 1 – EFC
 - 2 – No Connection
 - 3 – Output
 - 4 – 0V, Case GND
 - 5 – Input Voltage +12 Vdc

Dimensions: Inches (mm)



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