



YH1518 series OCXO

100 to 250 MHz

(Rev B)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

Very Low Phase Noise
Low G-Sensitivity

SPECIFICATIONS

Frequency	100.0 to 250.0 MHz		
Output	Sinewave, +3 dBm min into 50 ohms		
Harmonics	-20 dBc		
Subharmonics	-40 dBc		
Temp Stability	Temp	Stability	Option
	-20 to +70°C	$\pm 1 \times 10^{-7}$	N17
	-40 to +70°C	$\pm 2 \times 10^{-7}$	S27
	-40 to +70°C	$\pm 3 \times 10^{-7}$	S37

Note - all stabilities may not be available at all frequencies or both package options.

Freq vs. Supply	$\pm 5 \times 10^{-9}$ for a 5% change
Aging	$\pm 5 \times 10^{-7}$ per year
Input Voltage	+15V, +12V, or +5VDC $\pm 5\%$
Input Power	Turn-on - $\leq 6W$ for 5 minutes Idle - $\leq 2W @ +25^\circ C$
Warm-up Time	within $\pm 1 \times 10^{-7}$ in 4 minutes, ref to 60 minute frequency @ +25°C

Phase Noise	Offset	160M dBc/Hz	250M dBc/Hz
(typical)	10 Hz	-90	-80
	100 Hz	-120	-110
	1 kHz	-145	-135
	10 kHz	-155	-150
	100 kHz	-160	-155

G-Sensitivity	$\leq 1 \times 10^{-9}/g$ for "S" package; $\leq 2.5 \times 10^{-9}/g$ for "LP".
Frequency Adjust	± 2.0 ppm typ, positive slope 0 to +5.0V EFC
Shock	MIL-STD-202, Method 213, Condition C
Vibration	MIL-STD-202, Method 204, Condition A

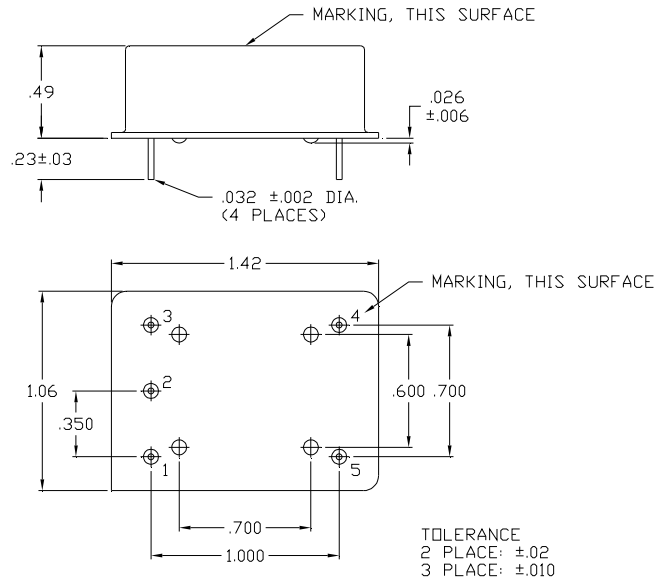
Ordering Information:

YH1518-S37-12.0-LP-160.0MHz
(Model-Temp Stab-Inp V-Package-Frequency)

“LP” - Low Profile Package

PIN CONNECTIONS

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



“S” - Standard Profile Package

