



# YH1518 series OCXO

100 to 250 MHz  
(Rev B)

GREENRAY INDUSTRIES, INC.

## PRECISION QUARTZ TECHNOLOGY

Very Low Phase Noise  
Low G-Sensitivity

### SPECIFICATIONS

<b>Frequency</b>	100.0 to 250.0 MHz		
<b>Output</b>	Sinewave, +3 dBm min into 50 ohms		
<b>Harmonics</b>	-20 dBc		
<b>Subharmonics</b>	-40 dBc		
<b>Temp Stability</b>	<b>Temp</b>	<b>Stability</b>	<b>Option</b>
	-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.

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

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

<b>G-Sensitivity</b>	$\leq 1 \times 10^{-9}/g$ ("S" package only)
<b>Frequency Adjust</b>	$\pm 2.0$ ppm typ, positive slope 0 to +5.0V EFC

<b>Shock</b>	MIL-STD-202, Method 213, Condition C
<b>Vibration</b>	MIL-STD-202, Method 204, Condition A

Ordering Information:

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

840 West Church Rd., Mechanicsburg, PA 17055

Tel: 717-766-0223 Fax: 717-790-9509

www.greenrayindustries.com email: sales@greenrayindustries.com



# YH1518 series OCXO

100 to 250 MHz

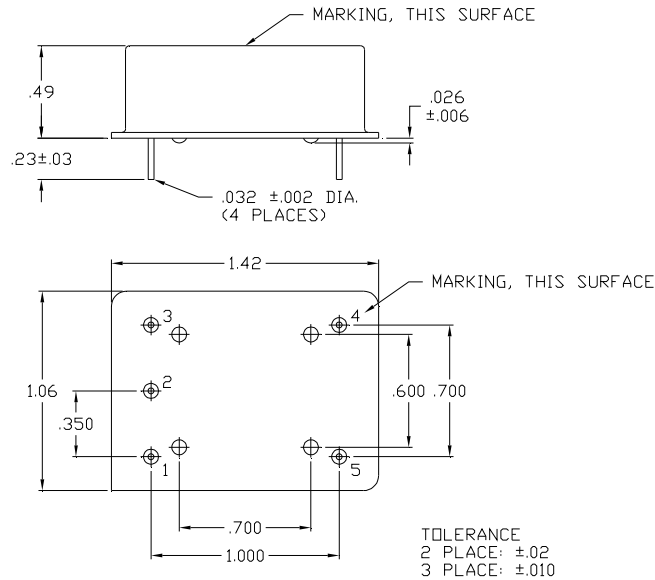
(Rev A)

GREENRAY INDUSTRIES, INC.

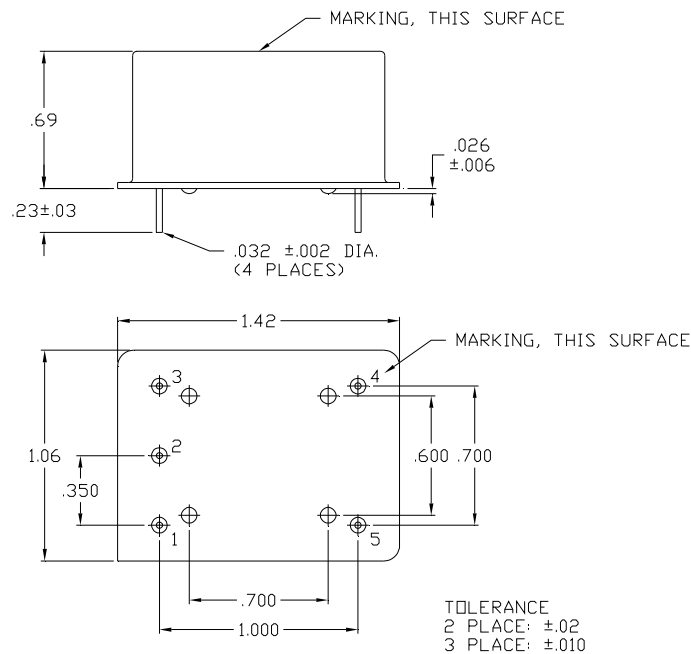
## "LP" - Low Profile Package

### PIN CONNECTIONS

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



## "S" - Standard Profile Package



To inquire about available custom parameters, please contact us at [sales@greenrayindustries.com](mailto:sales@greenrayindustries.com).

840 West Church Rd., Mechanicsburg, PA 17055

Tel: 717-766-0223 Fax: 717-790-9509

[www.greenrayindustries.com](http://www.greenrayindustries.com) email: [sales@greenrayindustries.com](mailto:sales@greenrayindustries.com)