



YH1485 series OCXO

10.0 to 120.0 MHz

(Rev A)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

Miniature Package
Low Phase Noise

SPECIFICATIONS

Frequency	10.0 to 120.0 MHz		
Output	Sinewave, +10dBm min into 50Ω		
Harmonics	-30dBc		
Spurious	-80dBc		
Initial Accuracy	within ±0.25ppM @ +25°C and +2.5VDC EFC		
Temp Stability	Temp Range	Tolerance	Option
	-20 to +70°C	±5x10 ⁻⁸	N58 (10 MHz)
	-20 to +70°C	±3x10 ⁻⁷	N37 (100 MHz)
	-40 to +85°C	±1x10 ⁻⁷	T17 (10 MHz)
	-40 to +85°C	±5x10 ⁻⁷	T57 (100 MHz)
Freq vs. Supply	±5x10 ⁻⁹ for a 5% change		
Freq vs. Load	±5x10 ⁻⁹ for a 10% change		
Aging	<1x10 ⁻⁷ /year, 0.5ppM for 10yrs (10MHz); <5x10 ⁻⁷ /year, 2.0ppM for 10yrs (100MHz)		
Input Voltage	+15.0 or +12.0VDC		
Input Power	Warmup - <5W for 5 minutes Idle – 1.5W typ @ +25°C		
Warm-up Time	within 1x10 ⁻⁷ in 5 minutes		
Frequency Adjust	±0.75 ppM typ, positive slope, 0 to +5V, center @ +2.5VDC		
Allan Variance	5x10 ⁻¹⁰ for a 1 sec tau		
Phase Noise	Offset	dBc/Hz (10M)	dBc/Hz (100M)
(typical @ +25°C, Static conditions)	10 Hz	-130	-100
	100 Hz	-155	-130
	1 kHz	-165	-157
	10 kHz	-173	-170
	100 kHz	-176	-175
	1 MHz	-180	-178
Acceleration Sense	<1x10 ⁻⁹ /g worst axis (SD), <5x10 ⁻¹⁰ /g (LG)		
Shock	– per MIL-STD-202, Meth 213, Cond C		
Vibration	– per MIL-STD-202, Meth 204, Cond A and per MIL-STD-810, Meth 514, Proc 1		

*Package Option See Page 2

Ordering Example: Select options to create a part description, Greenray will assign a GRI part number at time of order.

YH1485-T17-12.0-LG-TH-10.0MHz
(Series-Stability-InpV-GSense-Package-Freq)



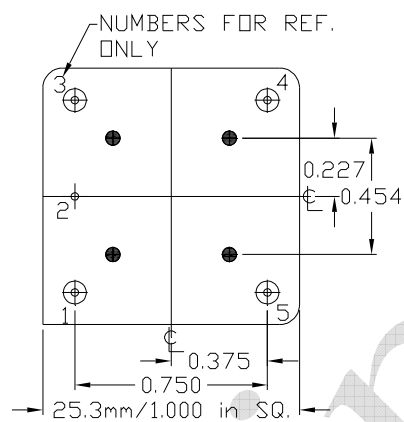
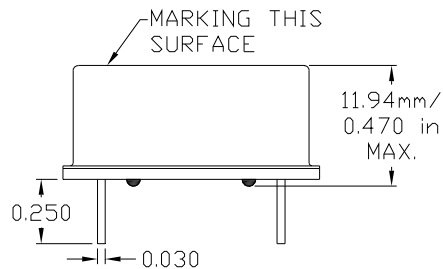
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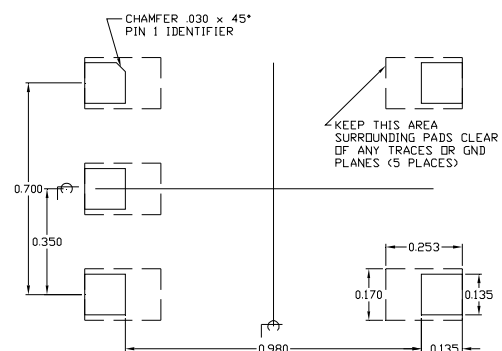
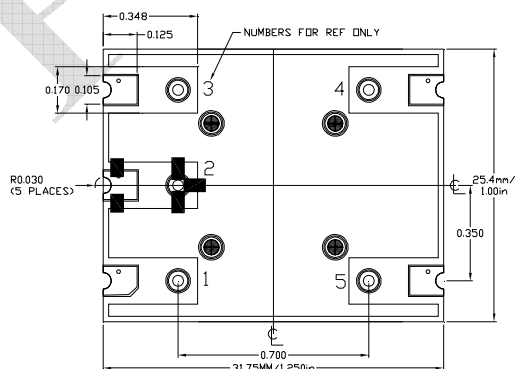
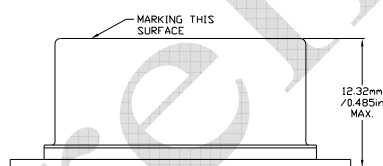
"TH" Outline



Pin Connections

- 1 - Output
- 2 - 0V / Case Gnd
- 3 - EFC
- 4 - N/C
- 5 - Supply V

"SM" Outline



840 West Church Rd., Mechanicsburg, PA 17055

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

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