



Y1600 Series XO

10MHz – 50MHz
(Rev A)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

Rugged XO
Low Phase Noise

SPECIFICATIONS

Frequency:	10.0 MHz to 50.0 MHz		
Output:	HCMOS		
Load:	10 to 15 pF		
Symmetry:	50% ± 5%		
Temp Stability:	Temp Range	Tolerance	Option
	0 to +50°C	±5x10 ⁻⁶	B56
	-20 to +70°C	±10x10 ⁻⁶	N106
	-40 to +85°C	±15x10 ⁻⁶	T156
Initial Accuracy:	within ±3 ppM of nominal @ +2.5V EFC		
Aging:	<±1 ppM – 1 st year; <3 ppM for 10 yrs (10 MHz)		
Input Voltage:	+5.0 VDC ± 5%		
Input Current:	<15 mA (10 MHz)		
Phase Noise:	10 Hz	-105 dBc/Hz	
(typ @ 10 MHz)	100 Hz	-135 dBc/Hz	
	1 kHz	-155 dBc/Hz	
	10 kHz	-160 dBc/Hz	
	100 kHz	-162 dBc/Hz	
Frequency Adjust:	±10 ppM typ, positive slope 0.5V to +4.5V EFC		

Environmental:

1. Random Vibration – per MIL-STD-202, Meth 214, Cond. IA
2. Shock – per MIL-STD-202, Meth 213, Cond. C
3. Storage Temp - -55° to +85°C

Ordering Example:

Y1600-N106-10.0 MHz
(Model-Stability-Frequency)

Pin Connections:

- 1 - EFC
- 7 - 0V/Case Gnd
- 8 - Output
- 14 - Supply V

