



YH1322 Series OCXO

10 MHz – 120 MHz

(Rev H)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

SPECIFICATIONS

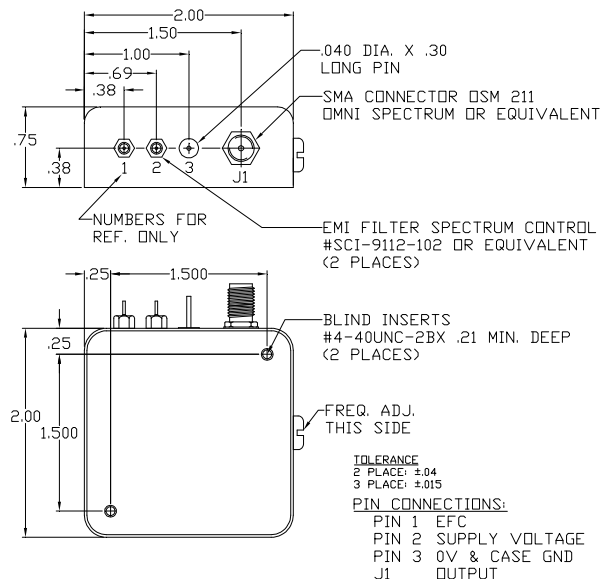
Very Low Phase Noise
HCMOS or Sinewave Output
Ideal for Base Station or Test Equipment Apps

Frequency	10.0 MHz to 120.0 MHz																																			
Output	Sinewave, +10dBm min into 50 ohms																																			
Harmonics	-20dBc																																			
Temp Stability	<table><tr><th>Temp Range</th><th>10MHz Tol</th><th>Model</th><th>100MHz Tol</th><th>Model</th></tr><tr><td>0 to +50°C</td><td>$\pm 1 \times 10^{-8}$</td><td>B18</td><td>$\pm 5 \times 10^{-8}$</td><td>B58</td></tr><tr><td>-10 to +60°C</td><td>$\pm 1.5 \times 10^{-8}$</td><td>G158</td><td>$\pm 7 \times 10^{-8}$</td><td>G78</td></tr><tr><td>-20 to +70°C</td><td>$\pm 2 \times 10^{-8}$</td><td>N28</td><td>$\pm 1 \times 10^{-7}$</td><td>N17</td></tr><tr><td>-40 to +85°C</td><td>$\pm 5 \times 10^{-8}$</td><td>T58</td><td>$\pm 3 \times 10^{-7}$</td><td>T37</td></tr></table>	Temp Range	10MHz Tol	Model	100MHz Tol	Model	0 to +50°C	$\pm 1 \times 10^{-8}$	B18	$\pm 5 \times 10^{-8}$	B58	-10 to +60°C	$\pm 1.5 \times 10^{-8}$	G158	$\pm 7 \times 10^{-8}$	G78	-20 to +70°C	$\pm 2 \times 10^{-8}$	N28	$\pm 1 \times 10^{-7}$	N17	-40 to +85°C	$\pm 5 \times 10^{-8}$	T58	$\pm 3 \times 10^{-7}$	T37										
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Freq vs. Supply	$\pm 5 \times 10^{-9}$ for a 5% change																																			
Aging	$\pm 1 \times 10^{-7}$ per year (10MHz); $\pm 5 \times 10^{-7}$ per year (100MHz)																																			
Input Voltage	+15 VDC $\pm 5\%$ - Option C +12 VDC $\pm 5\%$ - Option D																																			
Input Power	Turn-on - $\leq 6W$ for 5 minutes Idle - $\leq 2.5W$ @ +25°C																																			
Warm-up Time	within $\pm 5 \times 10^{-8}$ in 5 minutes, ref to 60 minute frequency @ +25°C																																			
Phase Noise	<table><tr><th></th><th>10MHz Std</th><th>10MHz Ultra-Low</th><th>100MHz Std</th><th>100MHz Ultra-Low</th></tr><tr><td>(Sine Max)</td><td></td><td></td><td></td><td></td></tr><tr><td>10 Hz</td><td>-125 dBc/Hz</td><td>-128 dBc/Hz</td><td>-85 dBc/Hz</td><td>-90 dBc/Hz</td></tr><tr><td>100 Hz</td><td>-150 dBc/Hz</td><td>-155 dBc/Hz</td><td>-115 dBc/Hz</td><td>-120 dBc/Hz</td></tr><tr><td>1 kHz</td><td>-160 dBc/Hz</td><td>-163 dBc/Hz</td><td>-145 dBc/Hz</td><td>-150 dBc/Hz</td></tr><tr><td>10 kHz</td><td>-165 dBc/Hz</td><td>-168 dBc/Hz</td><td>-160 dBc/Hz</td><td>-165 dBc/Hz</td></tr><tr><td>100 kHz</td><td>-165 dBc/Hz</td><td>-168 dBc/Hz</td><td>-165 dBc/Hz</td><td>-168 dBc/Hz</td></tr></table>		10MHz Std	10MHz Ultra-Low	100MHz Std	100MHz Ultra-Low	(Sine Max)					10 Hz	-125 dBc/Hz	-128 dBc/Hz	-85 dBc/Hz	-90 dBc/Hz	100 Hz	-150 dBc/Hz	-155 dBc/Hz	-115 dBc/Hz	-120 dBc/Hz	1 kHz	-160 dBc/Hz	-163 dBc/Hz	-145 dBc/Hz	-150 dBc/Hz	10 kHz	-165 dBc/Hz	-168 dBc/Hz	-160 dBc/Hz	-165 dBc/Hz	100 kHz	-165 dBc/Hz	-168 dBc/Hz	-165 dBc/Hz	-168 dBc/Hz
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Frequency Adjust	± 1.0 ppm typ, positive slope +0.5 to +5.0V EFC																																			
Shock (optional)	MIL-STD-202, Method 213, Condition C																																			
Vibration (optional)	MIL-STD-202, Method 204, Condition A																																			

Ordering Example: YH1322 - N28 - D - UL - 10.0MHz
(Model# - Stability - Input V - Phase Noise Opt - Frequency)

PIN CONNECTIONS

- 1 - EFC
- 2 - Input Voltage
- 3 - 0V, Case Gnd
- J1 - Output



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

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