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Wenzel Associates, Inc.

"Quietly the Best"

OCXO
Streamline

Low Noise Crystal Oscillators > Streamline

Features:

- Output Frequency: 1 MHz to 25 MHz
- Excellent Aging Rate
- Low Phase Noise
- Good Temperature Stability
- PCB and SMA Packages Available
- Internal Voltage Regulator

Applications:

- Reference Oscillator
- GPS Receivers
- Synthesizers
- Test Equipment



Electrical Specifications		
Output Frequency (fixed; specify within range)		**1 MHz to 25 MHz**
Output Level		+13 dBm ±2 dB into 50 ohms
Aging		*(10 MHz model, typical)*
	Per day after 30 days operating, typical	5×10^{-10}
	Second year, typical	5×10^{-8}
	Per year thereafter, typical	3×10^{-8}
Temperature Stability *(consult factory for other ranges)*		*(10 MHz model, typical)*
	Range E: 0 to +50°C (Ref: +25°C)	$\leq \pm 2 \times 10^{-9}$
	Range F: -20 to +70°C (Ref: +25°C)	$\leq \pm 5 \times 10^{-9}$
	Range G: -55 to +85°C (Ref: +25°C)	$\leq \pm 1.5 \times 10^{-8}$
Phase Noise		*(Frequency Dependent: See Standard Specifications and Part Numbers table below for details)*
Harmonics		≤ -30 dBc
Spurious		≤ -80 dBc
Tuning		*(MT and ET ranges can be reversed upon request)*
- Mechanical Tuning		$\geq \pm 1 \times 10^{-6}$, typical
- Electrical Tuning	Tuning A: 0 to +10 VDC	$\geq \pm 2 \times 10^{-7}$, typical
	Tuning B: ±5 VDC	$\geq \pm 2 \times 10^{-7}$, typical
	Slope: Negative	*(Positive Slope available on some ET only models)*
Supply Voltage		+15 VDC or +12 VDC (±5%)
Warm-up		≤ 5 Watts for 5 minutes at +25°C
Total		≤ 2.2 Watts at +25°C
Crystal Type		SC-cut
Mechanical		
Packaging		Solder sealed steel can
Dimensions		2" x 2" x 1"
Connectors / Mounting	- Package A	SMA(f) and solder pins on side Threaded Inserts, #4-40, 2 places
	- Package B	Solder pins on base Thru Hole PCB mount

Description:

The Streamline oscillators are general purpose OCXOs with a fixed output frequency between 1 MHz and 25 MHz, which offer excellent overall performance at a modest cost. They provide aging rates as low as 1E-10 per day and phase noise floor performance to -165 dBc/Hz. Packaging options include PCB mount with solder pins on the base or SMA(f) connector and solder pins on the side. A low noise voltage regulator is included to minimize power supply line related spurious signals. Please contact technical staff to discuss custom requirements.

Wenzel Associates, Inc. • 2215 Kramer Lane, Austin, Texas 78758-4002 • www.wenzel.com
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Low Noise Crystal Oscillators > Streamline

Standard 10 MHz Streamline

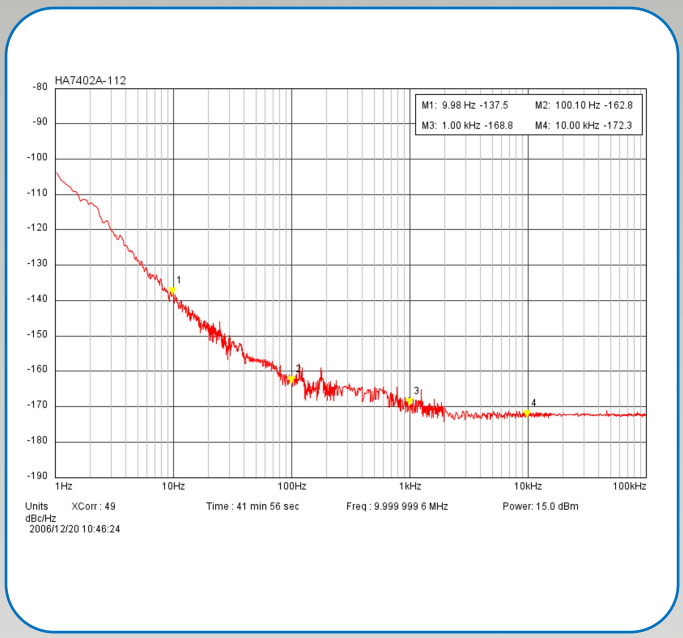


Figure 1: Typical Static Phase Noise Performance plot for the Standard 10 MHz Streamline, P/N: 501-27501-01

Premium 10 MHz Streamline

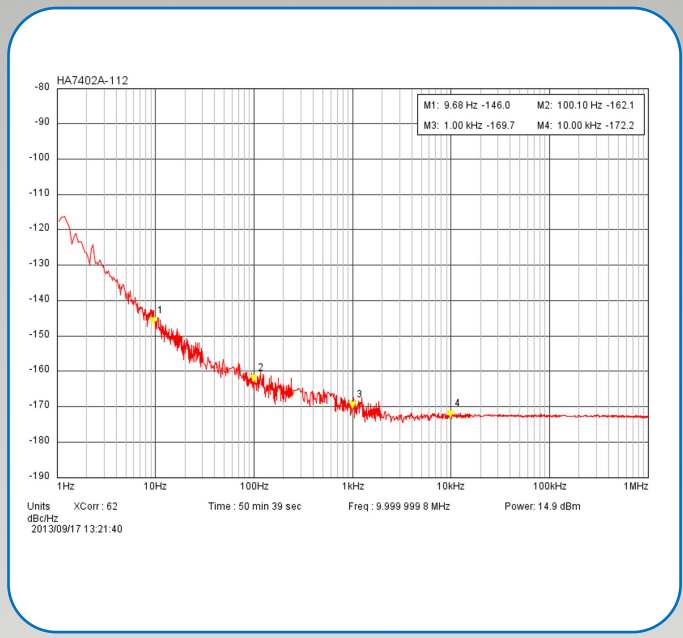


Figure 2: Typical Static Phase Noise Performance plot for the Premium 10 MHz Streamline, P/N: 501-27501-11

Standard Specifications and Part Numbers **

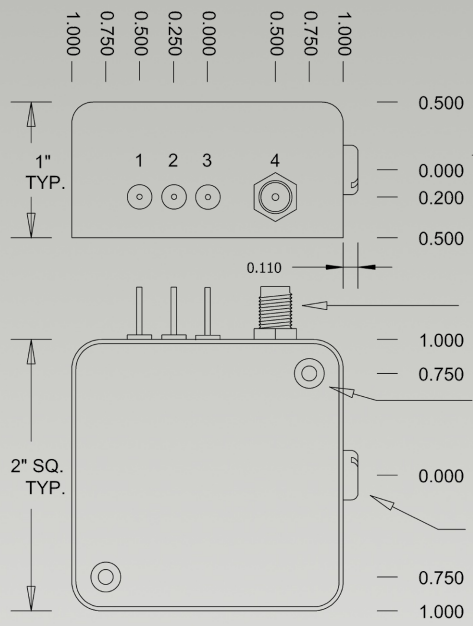
Part Number	Output Frequency * (MHz)	Typical Phase Noise (dBc/Hz), Static *					Output Level * (dBm) into 50 ohms	Temperature Stability * (Ref: +25°C)	Supply Voltage (VDC)	Package / Connectors	Package Size (inches)
		10 Hz	100 Hz	1 kHz	10 kHz	100 kHz					
501-27500-01	5	-135	-155	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+15	SMA(f) & Pins on Side	2 x 2 x 1
501-27500-04	5	-135	-155	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+15	Solder Pins on Base	2 x 2 x 1
501-27500-11	5	-145	-160	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+15	SMA(f) & Pins on Side	2 x 2 x 1
501-27500-14	5	-145	-160	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+15	Solder Pins on Base	2 x 2 x 1
501-27500-21	5	-135	-155	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+12	SMA(f) & Pins on Side	2 x 2 x 1
501-27500-24	5	-135	-155	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+12	Solder Pins on Base	2 x 2 x 1
501-27500-31	5	-145	-160	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+12	SMA(f) & Pins on Side	2 x 2 x 1
501-27500-34	5	-145	-160	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+12	Solder Pins on Base	2 x 2 x 1
501-27501-01	10	-130	-155	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+15	SMA(f) & Pins on Side	2 x 2 x 1
501-27501-04	10	-130	-155	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+15	Solder Pins on Base	2 x 2 x 1
501-27501-11	10	-140	-160	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+15	SMA(f) & Pins on Side	2 x 2 x 1
501-27501-14	10	-140	-160	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+15	Solder Pins on Base	2 x 2 x 1
501-27501-21	10	-130	-155	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+12	SMA(f) & Pins on Side	2 x 2 x 1
501-27501-24	10	-130	-155	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+12	Solder Pins on Base	2 x 2 x 1
501-27501-31	10	-140	-160	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+12	SMA(f) & Pins on Side	2 x 2 x 1
501-27501-34	10	-140	-160	-165	-165	-165	+13 ±2	±2E-9, 0° to +50°C	+12	Solder Pins on Base	2 x 2 x 1

* Consult factory for custom frequency, phase noise performance, output level and temperature stability options.
** See website for additional Standard Specifications and Part Numbers.

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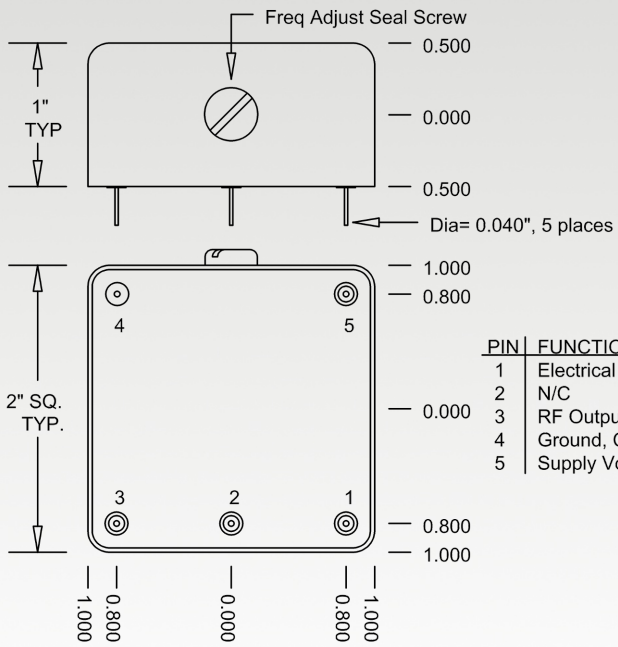
Package A



CONN	FUNCTION
1	Electrical Tuning
2	Supply Voltage
3	Ground, Case
4	RF Output

Connector numbers are for reference only, they are not marked on unit.

Package B



PIN	FUNCTION
1	Electrical Tuning
2	N/C
3	RF Output
4	Ground, Case
5	Supply Voltage

Connector numbers are for reference only, they are not marked on unit.

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