

- Low phase noise
- Frequency Range: 10MHz - 30MHz
- Excellent stability



DESCRIPTION

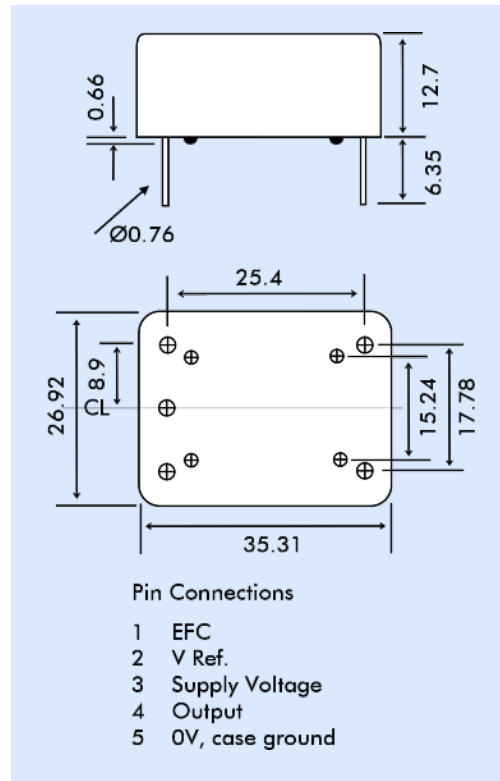
YH1310 series are high stability OCXOs exhibiting low phase noise. The part is ideal for use in base station or test equipment applications.

SPECIFICATIONS

Frequency Range:	10.0MHz to 30.0MHz
Output:	
YH1310:	Sinewave: +5dBm min. into 50Ω
YH1311:	Squarewave, CMOS
Harmonics:	-20dBc (Sinewave version)
Symmetry:	50%±10% (Squarewave version)
Temperature Stability:	See table
Freq. vs. Supply:	±5 x 10 ⁻⁹ for a 5% change
Ageing:	±1 x 10 ⁻⁷ per year (10MHz SC-cut xtal)
Input Voltage:	+5.0 or +12 VDC
Input Power:	
Warmup:	<6W for 5 minutes
Idle:	<2W typical @ +25°C
Warm-up Time:	within ±5 x 10 ⁻⁸ in 5 minutes, referenced to frequency @ +25°C
Phase Noise:	See table
Frequency Adjustment:	±1.0ppm, typical for 10MHz, Positive slope, 0.5 to +4.5V EFC

Designed and manufactured by Greenray Industries Inc.

YH1310 - OUTLINES AND DIMENSIONS



STABILITY OVER TEMPERATURE

Temp. Range	Stability SC-Crystal	Model	Stability AT-Crystal	Model
0~+50°C	±2x10 ⁻⁸	B28	±1x10 ⁻⁷	B17
-20~+70°C	±3x10 ⁻⁸	N38	±2x10 ⁻⁷	N27
-40~+85°C	±5x10 ⁻⁸	T58	±5x10 ⁻⁷	T57

PHASE NOISE

(Sinewave output, Typical)

Offset	dBc/Hz (10MHz SC)	dBc/Hz (10MHz AT)
10Hz	-125	-105
100Hz	-140	-135
1kHz	-150	-150
10kHz	-155	-155
100kHz	-158	-155

PART NUMBERING

Example: **YH1310-N38-5.0-10.00MHz**

