

- Miniature package
- Frequency Range: 10MHz - 100MHz
- Excellent stability



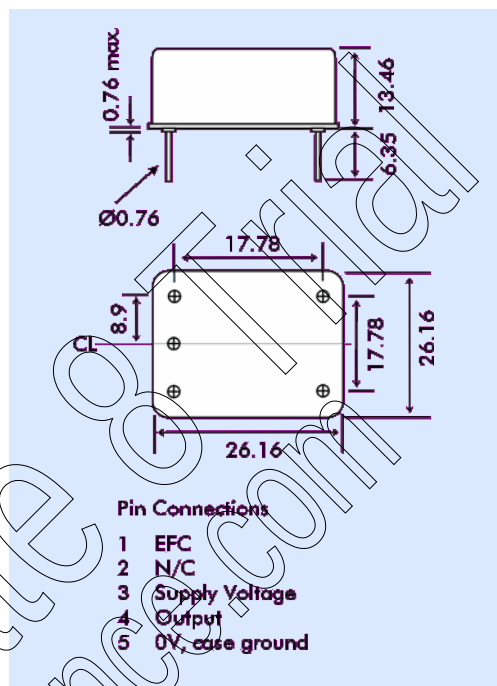
DESCRIPTION

YH1460/1461 series OCXOs are high stability oscillators produced in a miniature package. The part exhibits excellent stability.

SPECIFICATIONS

Frequency Range:	10.0MHz to 100.0MHz
Output:	
YH1460:	Sinewave: +7dBm $\pm$ 2dBm into 50 Ω
YH1461:	Squarewave, CMOS
Harmonics:	-20dBc (Sinewave version)
Symmetry:	50% $\pm$ 10% (Squarewave version)
Temperature Stability:	See table
Freq. vs. Supply:	$\pm 3 \times 10^{-9}$ for a 5% change
Ageing:	± 0.1 ppm per year (10MHz) ± 0.5 ppm per year (100MHz)
Input Voltage:	available in +15.0, +12, +5 & +3.3V
Input Power:	
Warmup:	<5W for 5 minutes
Idle:	<1.5W typical @ +25°C
Phase Noise:	See table
Frequency Adjustment:	± 1.0 ppm, typical for 10MHz, Positive slope, 0 to +3.3V or +5.0V EFC
Package:	See Outline. Improved shock and vibration performance is available with 15.24mm height, (option HS.) The standard height option is 'STD'.

YH1460 - OUTLINES AND DIMENSIONS



STABILITY OVER TEMPERATURE

Temp. Range	10MHz Stability	Option	100MHz Stability	Option
0~+50°C	$\pm 1 \times 10^{-8}$	B18	$\pm 5 \times 10^{-8}$	B58
-10~+60°C	$\pm 1 \times 10^{-9}$	G18	$\pm 7 \times 10^{-8}$	G78
-20~+70°C	$\pm 1 \times 10^{-8}$	N18	$\pm 1 \times 10^{-7}$	N17
-40~+85°C	$\pm 2 \times 10^{-8}$	T28	$\pm 3 \times 10^{-7}$	T37

PHASE NOISE

(Typical, at 10MHz, 5.0V)

Offset	dBc/Hz (10MHz)	dBc/Hz (100MHz)
10Hz	-125	-90
100Hz	-145	-120
1kHz	-155	-145
10kHz	-160	-155
100kHz	-160	-158

PART NUMBERING

Example: **YH1460-N18-5-STD-10.00MHz**

