

- **STRATUM 3 Compliant**
- **Frequency Range: 10MHz - 100MHz**
- **Low Phase Noise**



DESCRIPTION

YH1440/1441 series OCXOs are high stability oscillators packaged in a miniature SMD package. The part exhibits low phase noise and is Stratum 3 compliant.

SPECIFICATIONS

Frequency Range:	10.0MHz to 100.0MHz
Output:	
YH1440:	Squarewave, AC MOS
YH1441:	Sinewave: 0dBm into 50Ω
Harmonics:	-20dBc (Sinewave version)
Temperature Stability:	See table
Freq. vs. Supply:	$\pm 3 \times 10^{-9}$ for a 5% change
Ageing:	$\pm 2 \times 10^{-9}$ per day after 30 days (at 10.0MHz typical)
Input Voltage:	available in +15, +12, +5 & +3.3VDC
Input Power:	
Warmup:	<5W for 5 minutes
Idle:	<2.0W max. @ +25°C
Phase Noise:	See table
Frequency Adjustment:	± 5.0 ppm, typical. Positive slope 0 to +3.3 or +5.0V EFC

STABILITY OVER TEMPERATURE

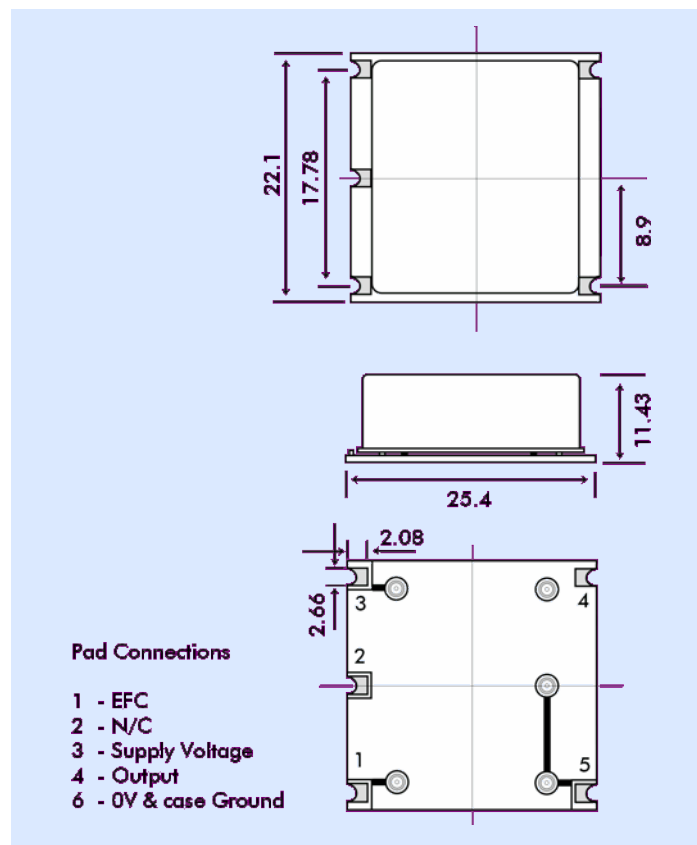
Temp. Range	Stability	Part No. Code
0~+50°C	$\pm 1 \times 10^{-7}$	B17
-10~+60°C	$\pm 1.5 \times 10^{-7}$	G157
-20~+70°C	$\pm 2 \times 10^{-7}$	N27
-40~+70°C	$\pm 5 \times 10^{-7}$	S57

PHASE NOISE

(Typical, at 100MHz)

Offset	dBc/Hz
10Hz	-80
100Hz	-110
1kHz	-140
10kHz	-155
100kHz	-160

YH1440 - OUTLINES AND DIMENSIONS



PART NUMBERING

Example: **YH1440-N27-5-100.00MHz**

