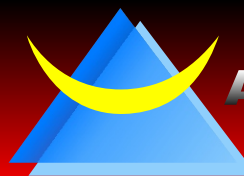


# OCXB SERIES

- Oven Controlled Oscillator
- 5.0 and 12.0 Volt
- SC Crystal Option
- $\pm 10\text{ppb}$  to  $\pm 500\text{ppb}$



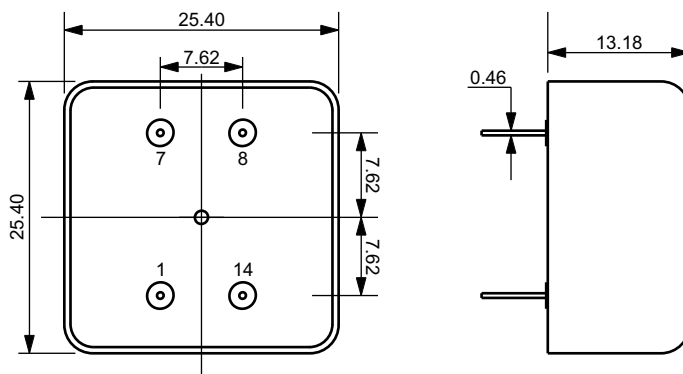
**ASCEND**

FREQUENCY DEVICES

## Electrical Specifications

Frequency Range:	-	1.000MHz to 50.000MHz
Frequency Stability:	-	$\pm 10\text{ppb}$ to $\pm 500\text{ppb}$
Operating Temperature Range:	-	0°C to +50°C to -40°C to +85°C
Storage Temperature Range:	-	-40°C to +95°C
Output Type:	-	HCMOS or Sinewave
Supply Voltage (Vdd):	-	5.0Vdc or 12Vdc
Supply Current:	5.0Vdc 12.0Vdc	300mA Typical, 500mA Maximum 120mA Typical, 250mA Maximum
Warm-up Time:	at 25°C	4 Minutes
Input Impedance:	-	100K Ohms Typical
Crystal:	-	AT Cut or SC Cut
Phase Noise (at 10MHz):	10Hz Offset 100Hz Offset 1000Hz Offset 10KHz Offset	-91dBc (AT CUT); -105dBc (SC CUT) -120dBc (AT CUT); -125dBc (SC CUT) -135dBc (AT CUT); -140dBc (SC CUT) -138dBc (AT CUT); -145dBc (SC CUT)
Voltage Control:	0 to VCC	$\pm 10\text{ppm}$ Typical (AT CUT); $\pm 3\text{ppm}$ Typical (SC CUT)
Aging:	after 30 days	$\pm 1.0\text{ppm/year}$ (AT CUT); $\pm 0.1\text{ppm/year}$ (SC CUT)

## Mechanical Dimensions



ALL DIMENSIONS  
IN MILLIMETERS

Pad	FUNCTION
1	Vc
7	Ground
8	Output
14	Supply Voltage

## Part Numbering Guide

**OCXB 5 S 100 A 1 - 33.000M**

### Series

14 Pin OCXO, 1" Square

### Supply Voltage

5 = 5.0V  
12 = 12.0V

### Output Type

H = HCMOS  
S = Sinewave

### Frequency Stability

010 =  $\pm 10\text{ppb}$   
050 =  $\pm 50\text{ppb}$   
100 =  $\pm 100\text{ppb}$   
500 =  $\pm 500\text{ppb}$

### Frequency

### Crystal Cut

1 = AT Cut  
2 = SC Cut

### Operating Temperature Range\*

A = +0°C to +50°C  
B = -10°C to +60°C  
C = -20°C to +70°C  
D = -30°C to +70°C  
E = -30°C to +80°C  
F = -40°C to +85°C

\* All Stabilities not available