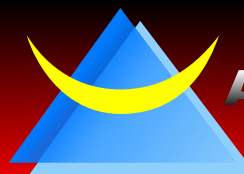


OCXA SERIES

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



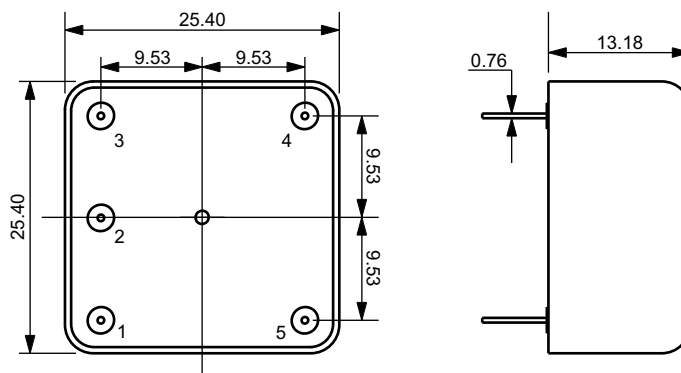
ASCEND

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



Pad	FUNCTION
1	Output
2	Ground
3	Vc
4	Reference Voltage/NC
5	+DC

ALL DIMENSIONS
IN MILLIMETERS

Part Numbering Guide

OCXA 5 S 100 A 1 - 33.000M

Series

4 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