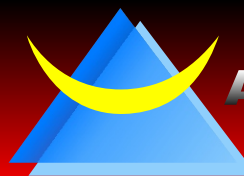


# OCXE SERIES

- Oven Controlled Oscillator
- 12.0 Volt
- SC Crystal Option
- $\pm 5\text{ppb}$  to  $\pm 100\text{ppb}$



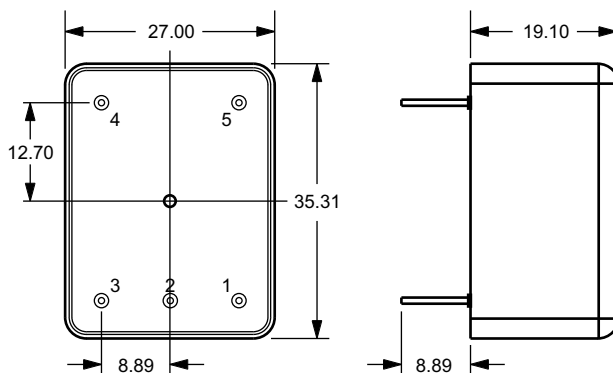
**ASCEND**

FREQUENCY DEVICES

## Electrical Specifications

Frequency Range:	-	1.000MHz to 70.000MHz
Frequency Stability:	-	$\pm 5\text{ppb}$ to $\pm 100\text{ppb}$
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):	-	12Vdc
Supply Current:	-	150mA Typical, 650mA Maximum
Warm-up Time:	at 25°C	5 Minutes
Input Impedance:	-	100K Ohms Typical
Crystal:	-	AT Cut or SC Cut
Phase Noise (at 10MHz Sinewave):	10Hz Offset	-101dBc (AT CUT); -110dBc (SC CUT)
	100Hz Offset	-111dBc (AT CUT); -130dBc (SC CUT)
	1000Hz Offset	-134dBc (AT CUT); -140dBc (SC CUT)
	10KHz Offset	-140dBc (AT CUT); -155dBc (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	Vc
2	Reference Voltage
3	Supply Voltage
4	Output
5	Ground

ALL DIMENSIONS  
IN MILLIMETERS

## Part Numbering Guide

**OCXE 12 S 100 A 1 - 33.000M**

### Series

5 Pin OCXO, Euro Package

### Supply Voltage

12 = 12.0V

### Output Type

H = HCMOS  
S = Sinewave

### Frequency Stability

005 =  $\pm 5\text{ppb}$   
010 =  $\pm 10\text{ppb}$   
050 =  $\pm 50\text{ppb}$   
100 =  $\pm 100\text{ppb}$

### 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