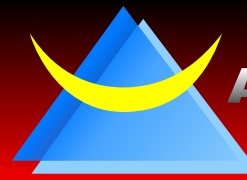


# OFS SERIES

- Full Size (14 PIN DIP)
- 5.0, 3.3, and 2.5
- HCMOS/TTL Output
- Stability to  $\pm 10\text{ppm}$



**ASCEND**

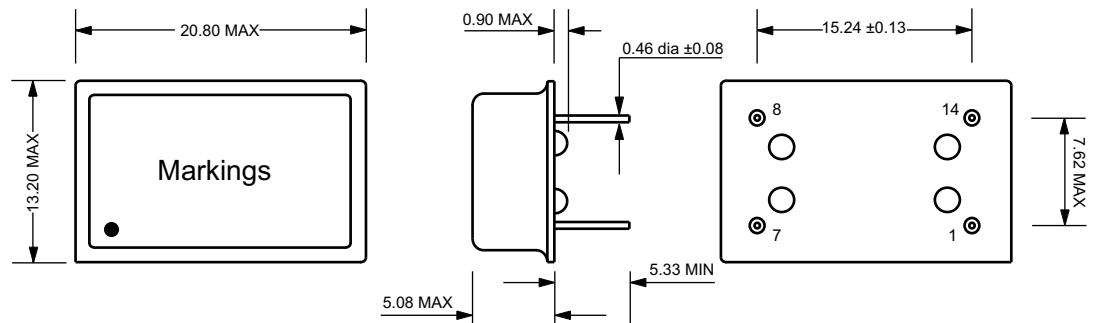
FREQUENCY DEVICES

## Electrical Specifications

Frequency Range:	-	1.000KHz to 220.000MHz
Frequency Stability:	-	$\pm 100\text{ppm}$ to $\pm 10\text{ppm}$ (Inclusive of Temperature, Load, Voltage and Aging)
Operating Temperature Range:	-	0°C to +70°C, -20°C to +70°C, or -40°C to +85°C
Storage Temperature Range:	-	-55°C to +125°C
Supply Voltage (Vdd):	-	5.0Vdc $\pm 10\%$ , 3.3Vdc $\pm 10\%$ , or 2.5Vdc $\pm 10\%$
Supply Current:	Vdd = 5.0V Vdd = 3.3V Vdd = 2.5V	35mA Max. (300KHz to 1MHz); 45mA Max. (1.001MHz to 24MHz); 55mA Max. (24.001MHz to 50MHz); 65mA Max. (50.001MHz to 70.000MHz); 85mA Max. (70.001MHz to 220MHz) 10mA Max. (300KHz to 24MHz); 25mA Max. (24.001MHz to 70MHz); 35mA Max. (70.001MHz to 220MHz) 20mA Max. (24MHz to 30MHz); 40mA Max. (30.001MHz to 80MHz)
Output Voltage HCMOS / TTL:	Logic 0 Logic 1	0.5V Maximum w/TTL; 10% Vdd Maximum w/HCMOS 2.5V Minimum w/TTL; 90% Vdd Minimum w/HCMOS
Duty Cycle:	-	40%/60% Maximum or 45%/55% Maximum (1.4Vdc w/TTL Load; 50% of waveform w/HCMOS Load)
Load Drive Capability:	-	10TTL Gates or 50pF Load Maximum
Rise/Fall Time:	300.000KHz to 70.000MHz 70.001MHz to 220.000MHz	6nSec Maximum 4nSec Maximum
Start Up Time:	-	10mSec Maximum

## Mechanical Dimensions

Pad	FUNCTION
1	No Connect or Tri-State
7	Case Ground
8	Output
14	Supply Voltage



### MARKING

Line 1: Ascend  
Line 2: XX.XXXR  
("R" Denotes RoHS Compliance)  
Line 3: XXXXXX (Date Code)

ALL DIMENSIONS  
IN MILLIMETERS

## Part Numbering Guide

**OFS 5H C 3 A 1 - 33.000M - G**

### Series

Full Size (14 PIN DIP)

### Supply Voltage

5H = 5.0V  
3H = 3.3V  
2H = 2.5V

### Freq. Toler/Stab.

A =  $\pm 100\text{PPM}$   
B =  $\pm 50\text{PPM}$   
C =  $\pm 25\text{PPM}$   
D =  $\pm 20\text{PPM}$   
E =  $\pm 10\text{PPM}$

### Value added Options

G = Gull Wing  
CLXXX = Cut Leads

### Frequency

### Pin 1 Connection

1 = No Connect  
2 = Tri-State

### Duty Cycle

A = 40% / 60%  
B = 45% / 55%

### Temperature Range

1 = 0°C to +70°C  
2 = -20°C to +70°C  
3 = -40°C to +85°C  
4 = -55°C to +125°C