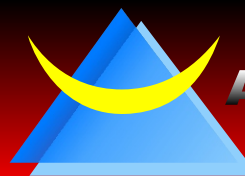


OCF SERIES

- 3.2mm x 2.5mm Ceramic SMD
- 3.3, 2.5, 1.8, 1.5, 1.35 and 1.2V Supply Voltages Available
- CMOS Output
- Tight Symmetry Available



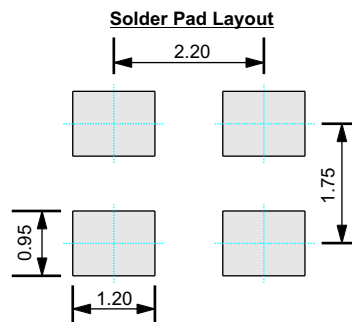
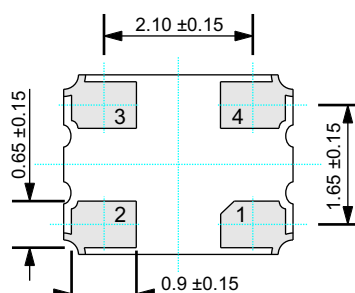
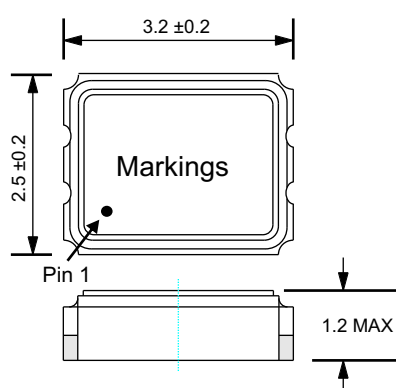
ASCEND

FREQUENCY DEVICES

Electrical Specifications

Frequency Range:	-	0.800MHz to 200.000MHz
Frequency Stability:	-	(Inclusive of calibration @ 25°C, operating temperature range, input voltage variation, load variation, aging, shock, and Vibration.)
	-	±20ppm, ±25ppm, ±50ppm or ±100ppm
Vdd Sensitivity:	±10%	-2 Minimum, +2 Maximum
Operating Temperature Range:	-	-10°C to +60°C, -20°C to +70°C, and -40°C to +85°C
Storage Temperature Range:	-	-55°C to +125°C
Supply Voltage (Vdd):	-	3.3Vdc ±10%, 2.5Vdc ±10%, 1.8Vdc ±10% and 1.5Vdc ±5%,
Supply Current:	0.8MHz to 19.999MHz 20MHz to 39.999MHz 40MHz to 74.999MHz 75MHz to 90.000MHz 90.001MHz to 110MHz	10mA Maximum (at 3.3Vdc); 8mA Maximum (at 2.5Vdc); 6mA Maximum (at 1.8Vdc and 1.5Vdc) 15mA Maximum (at 3.3Vdc); 10mA Maximum (at 2.5Vdc); 7mA Maximum (at 1.8Vdc and 1.5Vdc) 15mA Maximum (at 3.3Vdc); 10mA Maximum (at 2.5Vdc); 10mA Maximum (at 1.8Vdc and 1.5Vdc) 20mA Maximum (at 3.3Vdc); 15mA Maximum (at 2.5Vdc) 25mA Maximum (at 3.3Vdc)
Rise Time / Fall Time:	Transition Time	5.0nSec Maximum (Transition Times are measured between 10% and 90% of Vdd, with an output load of 15pF)
Duty Cycle:		45% Minimum / 55% Maximum
Output Level:	Ouput High (Logic "1") Ouput Low (Logic "1")	90%Vdd Minimum 10%Vdd Maximum
Tri-State:	Input to Pin 1	0.7Vdc Minimum (Output Active); 0.3Vdc Maximum (Output in High Impedance State)
Absolute Clock Period Jitter:	-	100pSec Maximum
Standby Current:	-	10µA Maximum
Start-up Time:	-	8mSec Maximum

Mechanical Dimensions



MARKING

Line 1: AXX.XXX
Line 2: XXXXXX (Date Code)

Pad	FUNCTION
1	Tri-State
2	Ground
3	Output
4	Supply Voltage

ALL DIMENSIONS
IN MILLIMETERS

Part Numbering Guide

OCF 3H C 1 A - 33.000M - TR

Series

3.2 x 2.5 Ceramic SMD (RoHS Compliant)

Supply Voltage

3H = 3.3V
2H = 2.5V
18H = 1.8V
15H = 1.5V
13H = 1.35V
12H = 1.2V

Freq. Toler/Stab.

A = ±100PPM
B = ±50PPM
C = ±25PPM*
D = ±20PPM**

Packaging

Blank = Bulk
-TR = Tape and Reel

Frequency

Duty Cycle

B = 45% / 55%

Temperature Range

1 = -10°C to +60°C
2 = -20°C to +70°C
3 = -40°C to +85°C



*Not Available over -40°C to +85°C (case by case contact Factory for Availability)

**Not Available over -20°C to +70°C or -40°C to +85°C (case by case contact Factory for Availability)

(Rev. D / 03-05-09)

Specifications subject to change without notice