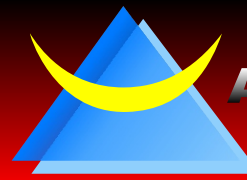


OCG SERIES

- 2.5mm x 2.0mm Ceramic SMD
- 3.3, 2.5, and 1.8 Supply Voltages Available
- CMOS Output
- RoHS Compliant



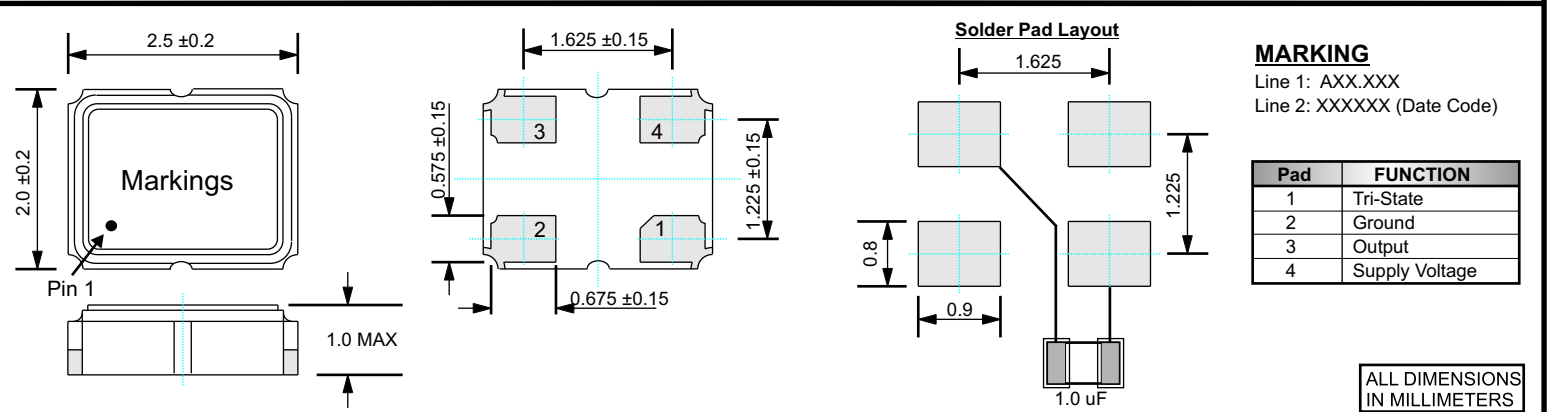
ASCEND

FREQUENCY DEVICES

Electrical Specifications

Frequency Range:	3.3V 2.5V 1.8V	1.000MHz to 200.000MHz 1.000MHz to 166.000MHz 1.000MHz to 133.000MHz
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% or 1.8Vdc ±10%
Supply Current:	1MHz to 29.999MHz 30MHz to 74.999MHz 75MHz to 132.999MHz 133MHz to 165.999MHz 166MHz to 20MHz	8mA Maximum (at 3.3Vdc); 6mA Maximum (at 2.5Vdc); 2.5mA Maximum (at 1.8Vdc) 15mA Maximum (at 3.3Vdc); 9mA Maximum (at 2.5Vdc); 3mA Maximum (at 1.8Vdc) 20mA Maximum (at 3.3Vdc); 11mA Maximum (at 2.5Vdc); 8mA Maximum (at 1.8Vdc) 22mA Maximum (at 3.3Vdc); 15mA Maximum (at 2.5Vdc) 25mA Maximum (at 3.3Vdc)
Rise Time / Fall Time:	Transition Time	8.0nSec 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:	Output High (Logic "1") Output 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:	-	40pSec Typical (most frequencies)
Standby Current:	-	10µA Maximum
Start-up Time:	-	5mSec Maximum
Phase Noise:	Fo 26.000MHz	10Hz = -78dBc/Hz, 100Hz = -111dBc, 1KHz = -136dBc, 10KHz = -145dBc, 100KHz = -147dBc, 1MHz = -147dBc

Mechanical Dimensions



Part Numbering Guide

OCG 3H C 1 A - 33.000M - TR

Series

2.5 x 2.0 Ceramic SMD (RoHS Compliant)

Supply Voltage

3H = 3.3V
2H = 2.5V
1H = 1.8V

Freq. Toler/Stab.

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

Packaging

Blank = Bulk
-TR = Tape and Reel

Frequency

Duty Cycle

A = 60% / 40%
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)