OCDH SERIES

- 9mm x 14mm Ceramic SMD
- 5.0, 3.3, 2.5, and 1.8 Volt
- HCMOS/TTL Output
- RoHS Compliant

ASCEND FREQUENCY DEVICES

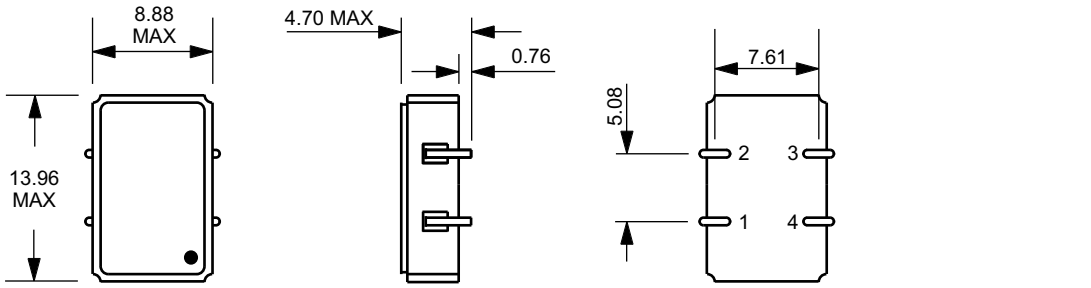
Electrical Specifications

Frequency Range:	5.0V and 3.3V	1.500MHz to 156.250MHz
	2.5V	1.500MHz to 70.000MHz
	1.8V	1.544MHz to 40.000MHz
Temperature Stability:	-	±100ppm to ±10ppm (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%	5.0Vdc ±5%, 3.3Vdc ±5%, 2.5Vdc ±5%, or 1.8Vdc ±5%
Supply Current:	Vdd = 5.0V	70mA Maximum
	Vdd = 3.3V	40mA Maximum
	Vdd = 2.5V	35mA Maximum
	Vdd = 1.8V	15mA Maximum
Output Voltage HCMOS:	Logic 0	10% Vdd Maximum
	Logic 1	90% Vdd Minimum
Duty Cycle:	50% of waveform	40%/60% Maximum or 45%/55% Maximum
Load Drive Capability:	5.0V (< 50MHz)	10TTL Gates or 50pF
	5.0V (> 50MHz)	10TTL Gates or 15pF
	3.3V (< 50MHz)	10TTL Gates or 30pF
	3.3V (> 50MHz)	10TTL Gates or 15pF
	2.5V	10TTL Gates or 15pF
	1.8V	10TTL Gates or 15pF
Rise/Fall Time:	-	4nSec Maximum
Start Up Time:	-	10mSec Maximum
RMS Phase Jitter	12KHz to 20MHz offset freq	1pSec Maximum

Mechanical Dimensions

Pad	
1	Tri-State (E/D)
2	Ground / Case
3	Output
4	Supply Voltage

Line	Marking
1	Frequency
2	Date Code



ALL DIMENSIONS IN MILLIMETERS

Part Numbering Guide

OCDH 3 C 3 A - 33.000M - TR

Series
9x14 Ceramic SMD

Supply Voltage
5 = 5.0V (HCMOS)
3 = 3.3V (HCMOS)
2 = 2.5V (HCMOS)
1 = 1.8V (HCMOS)

Freq. Toler/Stab.
A = ±100PPM
B = ±50PPM
C = ±25PPM
D = ±20PPM*
E = ±15PPM*
S = ±32PPM**
T = ±50PPM**

*0°C to +70°C Only
**Includes 10 years aging

Packaging
Blank = Bulk
-TR = Tape and Reel

Frequency

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

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