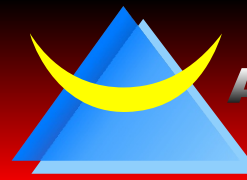


VCDH SERIES

- 6 J-Lead SMD VCXO
- 5.0 and 3.3 Volt
- HCMOS Output

- Pb-Free
- RoHS Compliant



ASCEND

FREQUENCY DEVICES

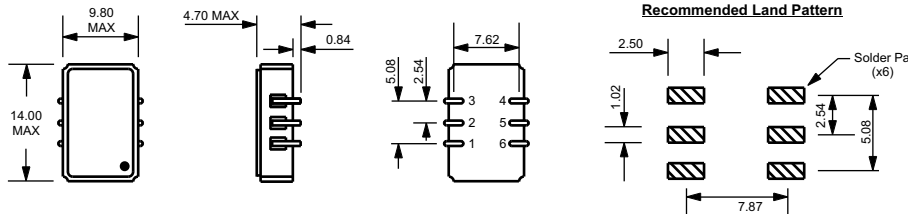
Electrical Specifications

Frequency Range:	-5V and 3.3V -3.3V Only	1.544MHz to 50.000MHz 50.000MHz to 180.000MHz
Frequency Stability:	at 25°C Inclusive of Temperature, Load, Voltage, and Aging	±10ppm See options
Operating Temperature Range:	-	0°C to +70°C or -40°C to +85°C
Storage Temperature Range:	-	-40°C to +85°C
Supply Voltage (Vdd):	-	5.0Vdc ±10% or 3.3Vdc ±10%
Supply Current:	-	30mA maximum (20mA typical)
Output Voltage HCMOS:	Logic 0 Logic 1	10% Vdd maximum 90% Vdd minimum
Duty Cycle:	50% of waveform w/HCMOS Load	50% ±10% maximum
Load Drive Capability:	-	30pF
Rise/Fall Time:	10% to 90% of Vdd	10nSec maximum
Control Voltage Range:	Vdd = 5.0V Vdd = 3.3V	2.50Vdc ±2.0Vdc 1.65Vdc ±1.5Vdc
Start Up Time:	-	10mSec maximum
Tri-state Input Voltage	-	V _{HI} : No Connection Enables Output V _{HI} : ≥0.9V _{DD} Minimum Enables Output V _{IL} : ≤0.1V _{DD} Maximum Disables Output: High Impedance
RMS Phase Jitter	-	1pSec Maximum F _r =12kHz to 20MHz

Environmental / Mechanical

Shock: MIL-STD-883, Method 2002, Condition B	Vibration: MIL-STD-883, Method 2007, Condition B
Solderability: MIL-STD-883, Method 2003	Gross Leak Test: MIL-STD-883, Method 1014, Condition C
Solvent Resistance: MIL-STD-202, Method 215	Fine Leak Test: MIL-STD-883, Method 1014, Condition A2

Mechanical Dimensions



ALL DIMENSIONS
IN MILLIMETERS

Pad	FUNCTION
1	Voltage Control
2	N/C or Tri-State
3	Case Ground
4	Output (frequency)
5	N/C or Tri-State
6	Supply Voltage (Vdd)

MARKING

Line 1: Ascend
Line 2: XX.XXX (Frequency)
Line 3: XXXXXX (Date Code)

Part Numbering Guide

VCDH 5 A 1 1 X N - 33.000M TR

Series

6 J-Lead SMD VCXO

Supply Voltage

5 = 5.0V
3 = 3.3V

Freq. Toler/Stab.

A = ±100PPM
B = ±50PPM
C = ±25PPM
D = ±10PPM

Temperature Range

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

Packaging Options

Blank = Bulk
TR = Tape and Reel

Frequency

Pin 2 & 5 Connection

T = Pin 2 = Tri-State, Pin 5 = N/C
N = Pin 2 = N/C, Pin 5 = Tri-State

Linearity

Blank = ±20% Max.
X = ±5% Max.
Y = ±10% Max.
Z = ±15% Max.

Pullability

1 = ±100ppm min.
2 = ±50ppm min.
3 = ±80ppm min.