VHS5H(3H) SERIES

- 8 PIN DIP VCXO
- 5.0 and 3.3
- HCMOS Output
- Stability to ±25ppm

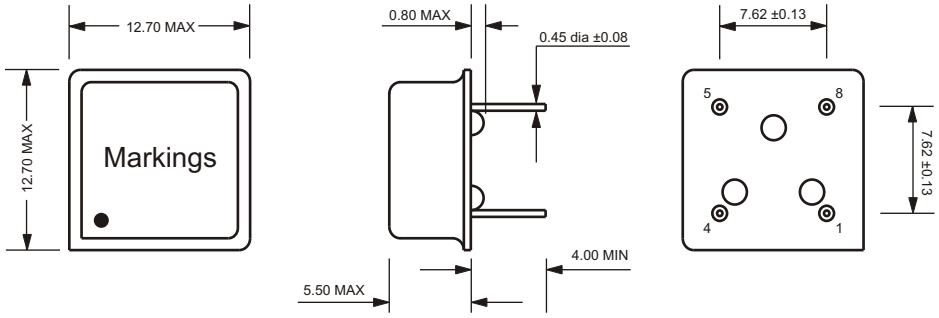
ASCEND FREQUENCY DEVICES

Electrical Specifications

Frequency Range:	-	1.000MHz to 220.000MHz
Frequency Stability:	-	±100ppm to ±25ppm (Inclusive of Temperature, Load, Voltage and Aging)
Operating Temperature Range:	-	0°C to +70°C or -40°C to +85°C
Storage Temperature Range:	-	-55°C to +125°C
Supply Voltage (Vdd):	-	5.0Vdc ±10% or 3.3Vdc ±10%
Supply Current:	Vdd = 5.0V	20mA Max. (1MHz to 29.999MHz); 30mA Max. (30MHz to 35.999MHz); 45mA Max. (36MHz to 99.999MHz); 50mA Max. (100MHz to 150MHz); 80mA Max. (150MHz to 220MHz)
	Vdd = 3.3V	10mA Max. (1MHz to 29.999MHz); 15mA Max. (30MHz to 35.999MHz); 20mA Max. (36MHz to 99.999MHz); 25mA Max. (100MHz to 150MHz); 50mA Max. (150MHz to 220MHz)
Output Voltage HCMOS:	Logic 0	10% Vdd Maximum
	Logic 1	90% Vdd Minimum
Control Voltage:	Vdd = 5.0V	2.50Vdc ±2.0Vdc
	Vdd = 3.3V	1.65Vdc ±1.5Vdc
Load Drive Capability:	-	10TTL Gates Maximum or 15pF CMOS
Rise/Fall Time:	20% to 80% of waveform	5nSec Maximum
Start Up Time:	-	5mSec Maximum

Mechanical Dimensions

Pad	FUNCTION
1	Control Voltage
4	Case Ground
5	Output
8	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

VHS 5H A 1 A A W - 33.000M

Series
8 Pin DIP VCXO

Supply Voltage
5H = 5.0V
3H = 3.3V

Freq. Toler/Stab.
A = ±100PPM
B = ±50PPM
C = ±25PPM (Only available with 0°C to +70°C)

Temperature Range
1 = 0°C to +70°C
2 = -40°C to +85°C

Frequency

Linearity
W = ±20% Max
X = ±5% Max
Y = ±10% Max
Z = ±15% Max

Pullability
A = ±150ppm min
B = ±100ppm min
C = ±50ppm min
D = ±100ppm to ±125ppm
E = ±10ppm min
F = ±100ppm to ±150ppm
G = ±50ppm to ±100ppm
H = ±75ppm min

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

**5% linearity not available for frequencies >27MHz

(Rev. A / 10-07-05)

Specifications subject to change without notice