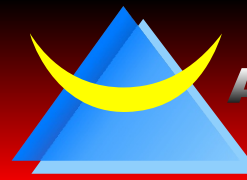


VCC5H (3H) SERIES

- 6 Pad SMD VCXO
- 5.0 and 3.3
- HCMOS Output
- Stability down to $\pm 10\text{ppm}$

- 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	$\pm 10\text{ppm}$ 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 $\pm 10\%$ or 3.3Vdc $\pm 10\%$
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% $\pm 10\%$ 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 $\pm 2.0\text{Vdc}$ 1.65Vdc $\pm 1.5\text{Vdc}$
Start Up Time:	-	10mSec maximum
Tri-state Input Voltage	-	V _{HI} : No Connection Enables Output V _{HI} : $\geq 0.9V_{DD}$ Minimum Enables Output V _{IL} : $\leq 0.1V_{DD}$ 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

Recommended Land Pattern

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

VCC 5H A 1 1 X N - 33.000M TR

- Series**
6 Pad SMD VCXO
- Supply Voltage**
5H = 5.0V
3H = 3.3V
- Freq. Toler/Stab.**
A = $\pm 100\text{PPM}$
B = $\pm 50\text{PPM}$
C = $\pm 25\text{PPM}$
D = $\pm 10\text{PPM}$
- 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 = $\pm 20\%$ Max.
X = $\pm 5\%$ Max.
Y = $\pm 10\%$ Max.
Z = $\pm 15\%$ Max.
- Pullability**
1 = $\pm 100\text{ppm}$ min.
2 = $\pm 50\text{ppm}$ min.
3 = $\pm 80\text{ppm}$ min.