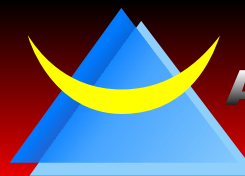


VCDB5H(3H) SERIES

- 4 J-Leads Ceramic SMD VCXO
- 5.0 and 3.3 HCMOS
- Wide Frequency Range



ASCEND

FREQUENCY DEVICES

Electrical Specifications

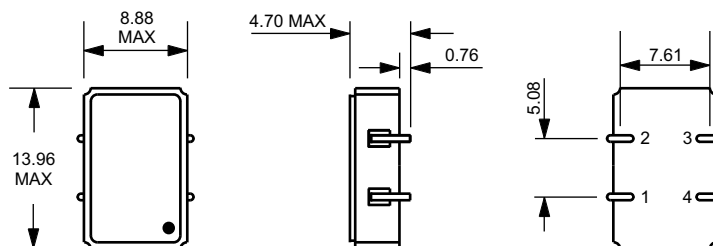
Frequency Range:	-	1.000MHz to 180.000MHz:
Frequency Stability:	-	±100ppm to ±20ppm (Inclusive of Temperature, Load, Voltage and Aging)
Operating Temperature Range:	-	0°C to +70°C, -20°C to +70°C, or -40°C to +85°C
Storage Temperature Range:	-	-55°C to +125°C
Supply Voltage (Vdd):	-	5.0Vdc ±10%, 3.3Vdc ±10%
Supply Current:	-	3.3V = 15mA Max. , 5.0V = 35mA Max.
Duty Cycle:	50% of waveform	40%/60% Maximum or 45%/55% Maximum
Load Drive Capability:	-	3.3V = 30pF CMOS, 5.0V = 15pF CMOS
Rise/Fall Time:	20% to 80% of waveform	5nSeconds Max.
Control Voltage Range:	Vdd = 3.3V Vdd = 5.0V	0.3Vdc to 3.0Vdc 0.5Vdc to 4.5Vdc
Linearity:	-	10% Max
Pullability:	-	100ppm Min.

Mechanical Dimensions

Humidity:	85% RH, 85°C, 48 Hours
Hermetic Seal:	Leak Rate 2 X 10 ⁻⁸ ATM-CM ³ /sec max
Solderability:	MIL-STD-202G, Method 208
Reflow Solderability:	260°C for 10 seconds
Vibration:	MIL-STD-202G, Method 204 35G, 50 to 2000 Hz
Shock:	MIL-STD-202G, Method 203 Test Cond E, 1000G's, ½ Sinewave
MIL-STD-883:	Available with Level B Screening

Mechanical Dimensions

ALL DIMENSIONS
IN MILLIMETERS



Pad	FUNCTION
1	Voltage Control
2	Case Ground
3	Output
4	Supply Voltage

MARKING

Line 1: AXX.XXX
Line 2: XXXXXX (Date Code)

Part Numbering Guide

VCDB 5H A 1 A - 70.000M

Series

4 J-Leads Ceramic SMD VCXO

Supply Voltage

5H = 5.0V
3H = 3.3V

Freq. Toler/Stab.

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

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