

# 7.0 mm x 5.0 mm VCXO

# V85H series

### Description:

The V85H Crystal Oscillator (VCXO) Series products provide a wide range of options in temperature stability, pullability, and very high operating frequency range in a 7.0 x 5.0 mm ceramic package.



### Features:

- Available in frequencies from 325 MHz to 700 MHz.
- Tri-state Enable/Disable
- Hermetically sealed ceramic SMD package
- PECL / LVDS
- RoHS-6/Leadfree compliant

### Frequency Range

Frequency
325 to 700 MHz

### Operating Temperature

Operating Temperature	Product Code
-10 to +60C	<b>A</b>
0 to +70C	<b>B</b>
-20 to 70C	<b>C</b>
-40 to 85C	<b>D</b>

### Frequency Stability

Freq. Stability	Product Code
+/- 25 ppm	<b>A</b>
+/- 50 ppm	<b>B</b>

Frequency stability includes 25C tolerance, drift over temperature, change versus voltage and load, 20 year aging, shock and vibration

### Aging: (typical at 622.08MHz after 30 days continuous operation)

Frequency	Timeframe	Aging	Product Code
622.08 MHz	1st Year	+/- 5.0ppm	<b>N/A</b>

### Supply Voltage (Vs):

Power Supply (Vs)	3.3 Vdc +/-10%
Product Code	<b>N/A</b>

Supply Voltage Sensitivity ( +/- 10% ) : +/- 2 ppm max. frequency change

### Frequency versus Voltage:

3.3 volt		5.0 volt	
0 to 3.3v on Pin 1	Product Code	0.5v to 4.5v on Pin1	Product Code
+/-100 ppm min	N/A	+/-100 ppm min	N/A

### Current Consumption ( I<sub>DD</sub> ):

	I <sub>DD</sub> ( at 3.3V )
	PECL / LVDS
Frequency Range ( MHz )	mA
325.000 to 700.000	100 / 80

**Environmental:**

Storage Temperature	-55 to +125 °C
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**Output Waveform:**

	PECL	LVDS
<b>Product Code</b>	<b>A</b>	<b>B</b>
	At 3.3 V	At 3.3 V
Output Logic 1	2.275Vmin	1.6Vmax
Output Logic 0	1.680Vmax	0.9Vmin
Rise/Fall Time ( nS )	1 max	1 max

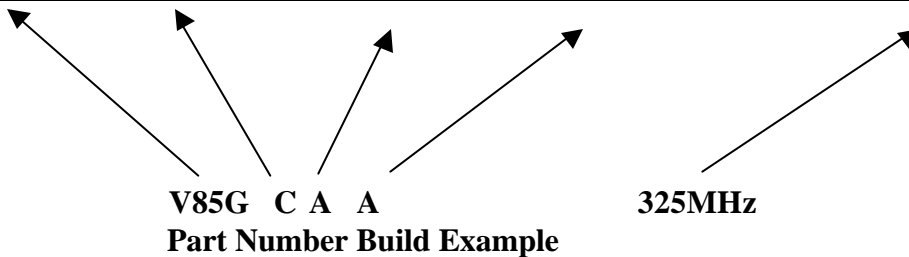
**Start-up Time: 3 mS max.**

**Tri-state function Pin 2:**

Pin 2 = Output Active with 2.5 V or greater

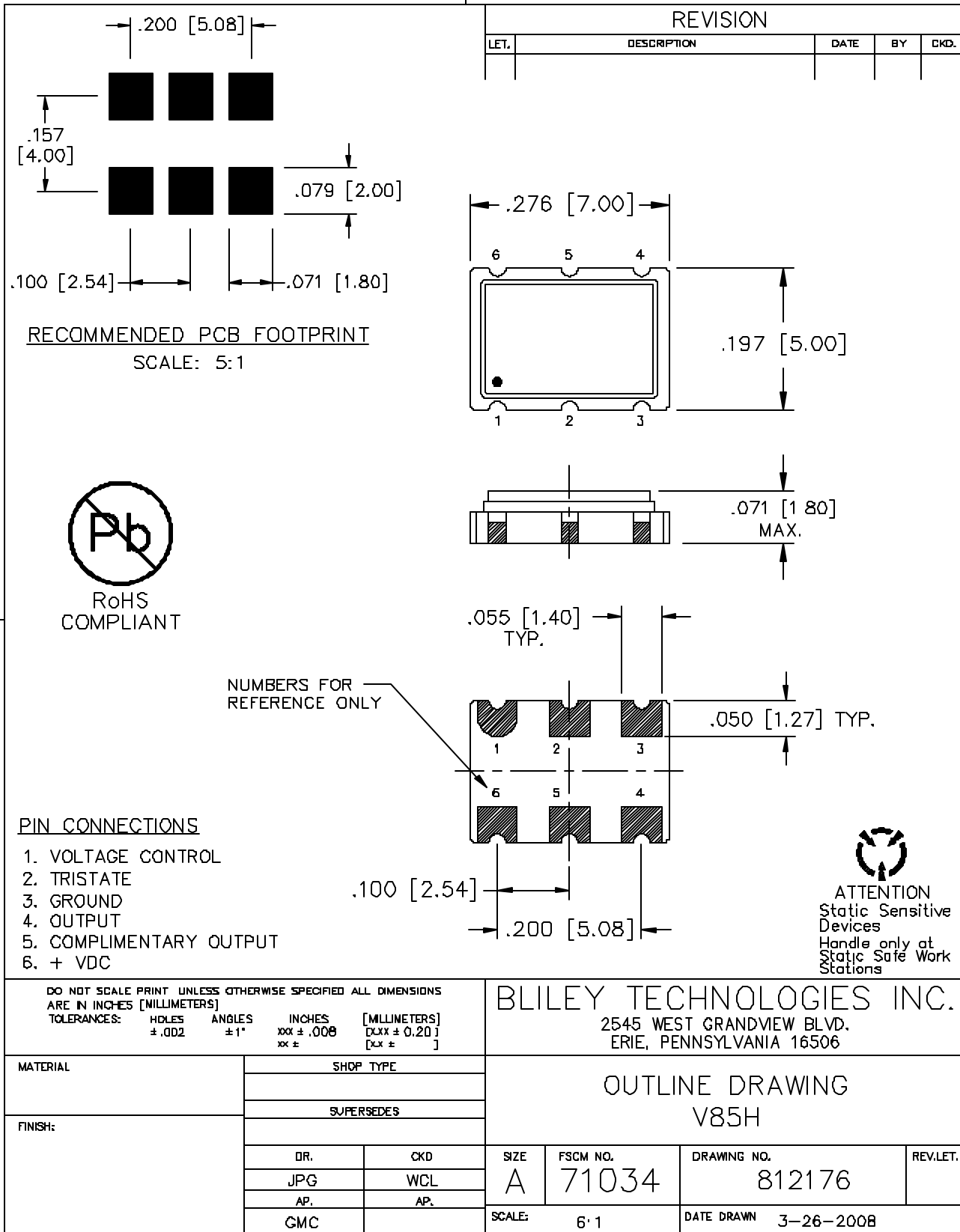
**Ordering Options:**

Product Family	Operating Temperature	Temperature Stability	Output Type	Operating Frequency
V85G	A	A	A	XXX.XXXMHz
V85G	B	B	B	XXX.XXXMHz
V85G	C	C		XXX.XXXMHz
V85G	D			XXX.XXXMHz



**\*\*Consult Bliley sales if other options required**

**RoHs compliant ; -20 to 70C ; +/- 25 ppm; PECL outputs and 325 MHz nominal operating frequency.**



PE200-1

**How to Order This Product:**

Contact Bliley Technologies with Product Selection Code from Ordering Options Section above.

**Attn:**

Sales @ Bliley

Fax: **814-833-2712**

Phone: 814-838-3571

Email: [info@bliley.com](mailto:info@bliley.com)

Web: [www.bliley.com](http://www.bliley.com)

Date: \_\_\_\_\_

**From:**

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Fax: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Quantities to Quote: \_\_\_\_\_ Target Price: \$\_\_\_\_\_

Application / Reference #: \_\_\_\_\_