

# 3.2 mm x 2.5 mm VCXO

# V106A series

### Description:

The V106A Voltage-Controlled Crystal Oscillator (VCXO) Series product is a low-cost, mini-footprint VCXO well suited for Wireless PBX, SONET-SDH-ATM, ADSL-XDSL, Video, Broadcasting, and a range of telecommunication applications.



### Features:

- Available in frequencies from 5.000 MHz to 40 MHz
- Hermetically sealed ceramic SMD package
- Low Power Consumption
- TTL/HCMOS compatible
- RoHS-6/Leadfree compliant

### Frequency Range

Frequency
5 to 40 MHz

### Operating Temperature:

Operating Temperature	Product Code
-10 to +70C	<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>
+/- 30 ppm	<b>B</b>
+/- 50 ppm	<b>C</b>
+/-100ppm	<b>D</b>

Frequency stability only refers to frequency drift over temperature.

**Aging: ±3ppm per year (After 30 days of operation)**

### Supply Voltage (Vs):

Power Supply (Vs)	+1.8 Vdc ±5%	+2.5 Vdc ±5%	3.3 Vdc ±10%
<b>Product Code</b>	<b>A</b>	<b>B</b>	<b>C</b>
Supply Current (Max)	25mA		

### Frequency Versus Voltage:

Control Voltage Range (V)		10% VDD – 90% VDD	
<b>Pull Range</b>	<b>Product Code</b>	<b>Pull Range</b>	<b>Product Code</b>
±50ppm	A	±100ppm	D
±75ppm	B	±150ppm	E
±90ppm	C		

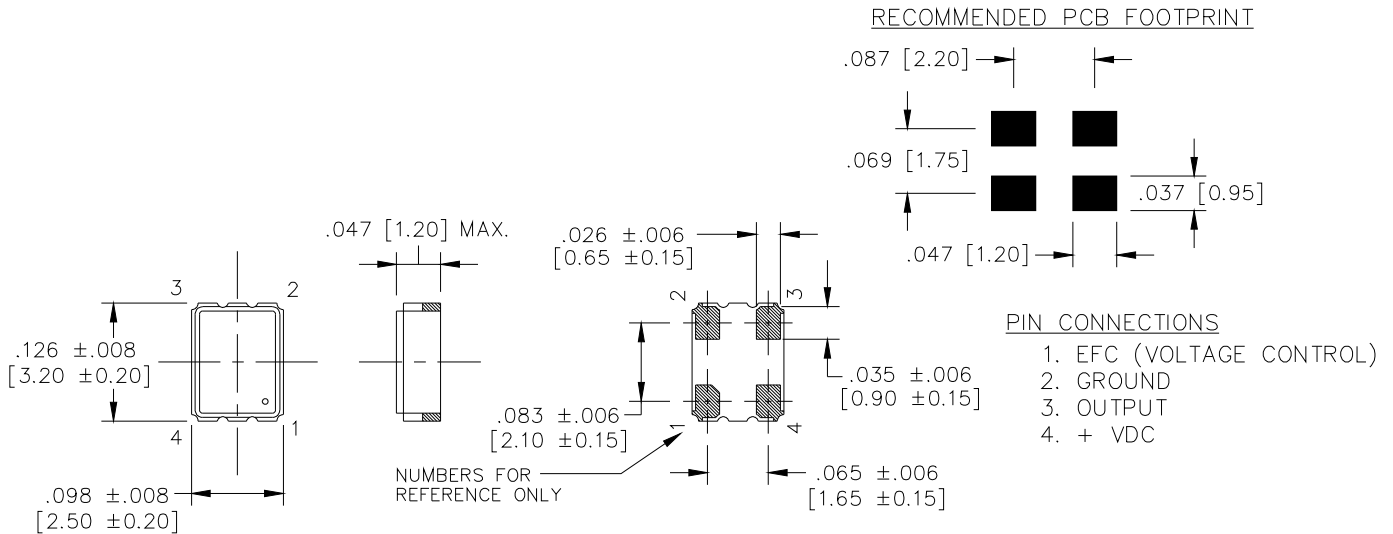
**Current Consumption ( I<sub>DD</sub> ): 25 mA max.**

### Environmental:

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

		Min	Typical	Max
Output Symmetry	At 50% V <sub>DD</sub>	40%	50%	60%
Rise Time ( nS )	Tr			7
Fall Time ( nS )	Tf			7
Output Voltage	V <sub>OH</sub>	90% V <sub>DD</sub>		
Output Voltage	V <sub>OL</sub>			10% V <sub>DD</sub>
HCMOS load ( pF )			15.0	



### Ordering Options:

Product Family	Operating Temperature	Frequency Stability	Supply Voltage	Frequency versus Voltage	Operating Frequency
V106A	A	A	A	A	XX.XXXX MHz
	B	B	B	B	
	C	C	C	C	
	D	D		D	
				E	

V106A C A C A 10.0000MHz  
**Part Number Build Example**

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

**RoHs compliant; -20 to 70C; +/- 25 ppm with a 3.3 volt supply; +/- 50 ppm pull Range  
 10 MHz nominal operating frequency.**