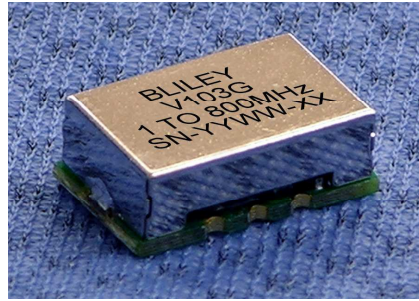


Description:

The V103G Voltage Controlled Crystal Oscillator (VCXO) Series products provide a wide range of options in temperature stability, pullability, and operating frequency range in a 9.0mm x 14.0 mm FR4 SMT package.



Features:

- Available in frequencies from 1.0MHz to 800 MHz.
- SMD package
- HCMOS / TTL output
- RoHS-6/Leadfree compliant

Frequency Range

Frequency
1 to 200 MHz

Operating Temperature

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

Frequency Stability

Freq. Stability	Product Code
+/- 25 ppm	A
+/- 50 ppm	B
+/- 100 ppm	C

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

Aging: (typical at 100MHz after 30 days continuous operation)

Frequency	Timeframe	Aging
100MHz	Per Year	+/- 3.0 ppm

Supply Voltage (Vs):

Power Supply (Vs)	3.3 Vdc +/-5%	5.0 Vdc +/-5%
Product Code	A	B

Supply Voltage Sensitivity (+/- 5%) : +/- 1 ppm max. Frequency change

Frequency Pulling Range:

3.3 volt Supply		5.0 volt Supply	
1.65VDC ±1.35V	Product Code	2.5VDC±2.0V	Product Code
+/-50 ppm min	A	+/-50 ppm min	C
+/-100 ppm min	B	+/-100 ppm min	D

Current Consumption (I_{DD}):

	I _{DD} (at 3.3V)
	HCMOS
Frequency Range (MHz)	mA
1.0 to 800.000	30 / 20

Environmental:

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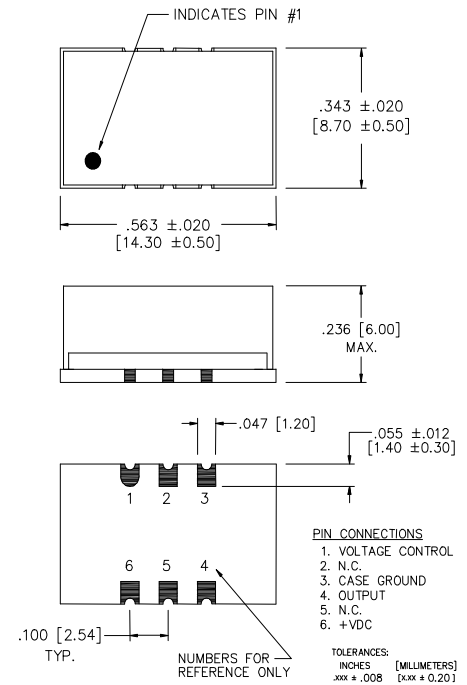
Output Waveform:

		Min	Typical	Max
Output Symmetry (%)	At 50% V _{DD}	45	50	55
Output Logic "1"	V _{OH}	90% V _{DD}		
Output Logic "0"	V _{OL}			10% V _{DD}
Rise/Fall Time (nS)	T _r / T _f	3	5	8

Start-up Time: 3 mS max.

Output Load:

Output Load (pF)	Product Code
15	A
50	B



Ordering Options:

Product Family	Operating Temperature	Frequency Stability	Output Load	Supply Voltage	Frequency Pull Range	Operating Frequency
V103G	A	A	A	A	A	XXX.XXXMHz
	B	B	B	B	B	XXX.XXXMHz
	C	C			C	XXX.XXXMHz
	D				D	XXX.XXXMHz

↑ V103G ↑ D ↑ A ↑ A ↑ B ↑ C ↑ 100.000MHz

Part Number Build Example

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

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