

7.0 mm x 5.0 mm XO

C85G series

Description:

The C85G Crystal Oscillator (XO) Series products provide a wide range of options in temperature stability, operating temperature range, and frequencies up to 700 MHz 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 and LVDS outputs
- RoHS-6/Leadfree compliant

Frequency Range, Operating Temperature, and Frequency Stability:

Frequency	Operating Temperature	Product Code	Freq. Stability	Product Code
325 to 700MHz	-10 to +60C	A	+/- 25 ppm	A
	0 to +70C	B	+/- 50 ppm	B
	-20 to 70C	C	+/- 75 ppm	C
	-40 to 85C	D	+/-100ppm	D

***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	N/A

Supply Voltage (Vs):

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

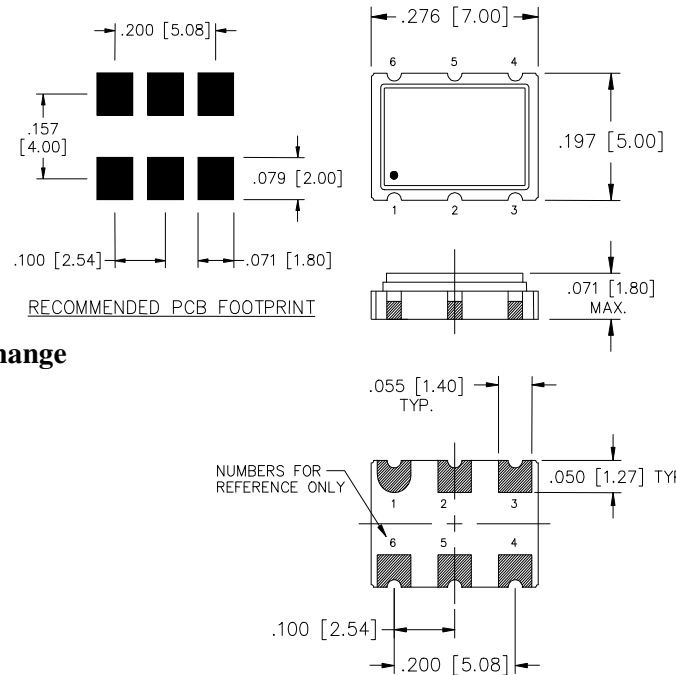
Supply Voltage Sensitivity (+/- 10%): +/- 2 ppm max. frequency change

Current Consumption (I_{DD}):

Frequency Range (MHz)	I _{DD} (at 3.3V)
325.000 to 700.000	PECL / LVDS
	100 / 80 mA

Environmental:

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

	PECL	LVDS
	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.

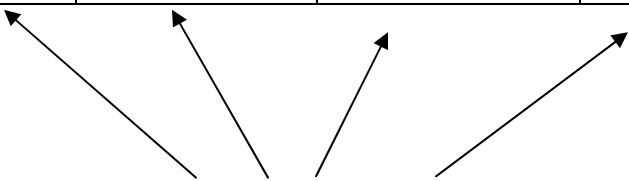
Tri-state function Pin 2:

Pin 2 = Ouput Active with 2.0 V or 2.5 V with 3.3V supply

Ordering Options:

Product Family	Operating Temperature	Frequency Stability	Operating Frequency
C85G	A	A	XXX.XXXMHz
C85G	B	B	XXX.XXXMHz
C85G	C	C	XXX.XXXMHz
C85G	D	D	XXX.XXXMHz

C85G C A 325MHz
Part Number Build Example



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

Note:

Consult Bliley sales for final package detail once electrical performance is defined.

***Not all combinations of operating frequency and supply voltage are available.**