Model VCS1001A
VCSO

Features:
- 622.08 MHz VCSO
- Low Profile Surface Mount Package
- Excellent solder reflow performance
- PCB Substrate for excellent TCE match

Description and applications:
Surface mount **9x14 mm** VCSO operating at a **3.3V** supply with complementary PECL outputs for use in datacom applications

Electrical Specifications:

VCS1001A	**Specification**
Center Frequency Fo	622.08 MHz
Supply Voltage (± 5%)	3.3 V
Current Drain	60 mA max.
Frequency Stability (-40C to 85C)	± 150 ppm
Operating Temperature	-40° to +85°C
Tuning Voltage Range	0.15V to 3.15V
Absolute pull range over all conditions	±50 ppm minimum
Positive gain transfer (Kv)	180 ppm/V typical
Output voltage swing (p-p)	500 to 800 mV {100K PECL compatible}
Linearity	+/- 3% typical: ± 10% max.
Output rise & fall times	250 ps typical; 400 ps max.
Spurious suppression	50 dBc min; 60 dBc typical
Data symmetry	45% min; 55% max.
Phase jitter (p-p)	< 5 psec
RMS phase jitter (50 kHz to 80 MHz)	< 1 psec

CTS Communications Components, Inc. 171 Covington Dr. Bloomingdale, Illinois 60108
Tel. (800) 757-6686 Fax: (630) 295-6606 www.ctscorp.com

Pinout information:

Pin	Symbol	Function
1	Vc	VCSO control voltage
2	E/D	Output Disable Disabled = LVPECL Logic 0 (or GND) Enabled = LVPECL Logic 1 (or Open)
3	GND	Case & electrical ground
4	OUTPUT	VCSO output
5	/OUTPUT	VCSO complementary output
6	Vcc	Power supply voltage

Enable/Disable Function

Enable: Logic 1 or Open
Disable: Logic 0 (or GND)

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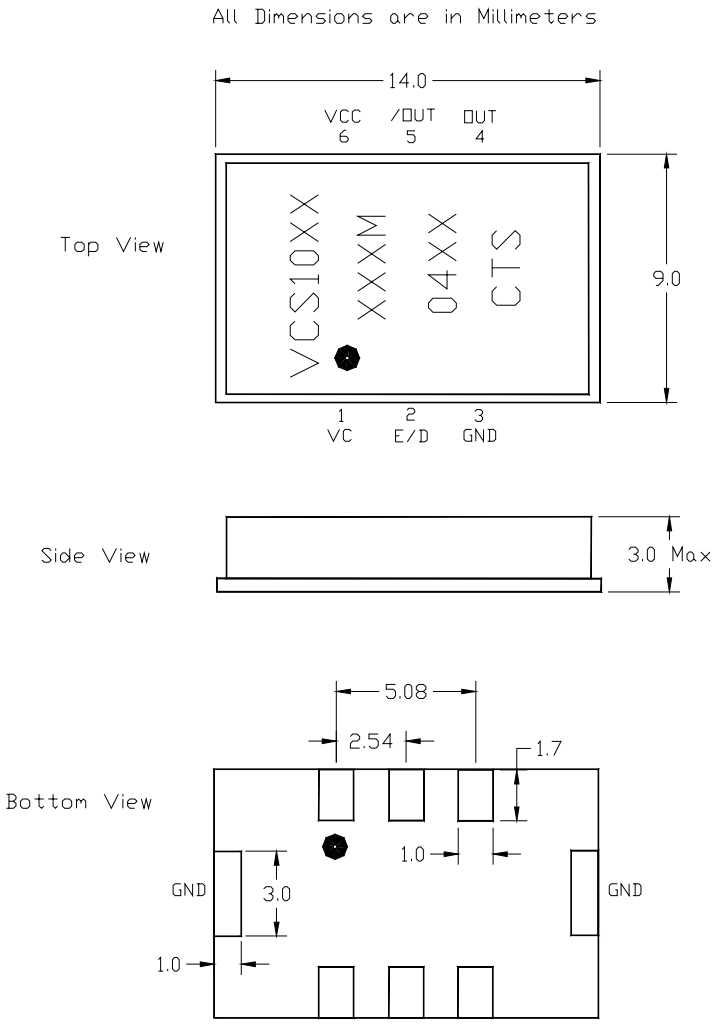
Mechanical Dimensions : 9.0 mm x 14.0 mm x 3.0 mm (max.)



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