

Description and Applications:

Surface mount 15.88 mm SQ (.625"SQ)
VCXO operating at a **3.3V** supply with
complementary CML outputs for use in
datacom applications

Features:

- 1000.00 MHz VCXO
- Low Profile Surface Mount Package
- Excellent solder reflow performance
- PCB Substrate for excellent TCE match



Electrical Specifications:

VCX2154A	Specification
Center Frequency Fo	1000.00 MHz
Supply Voltage (± 5%)	3.3V
Current Drain	100 mA max.
Aging (typical)	+/-1ppm/yr @25C; +/-5ppm max over 10 yr
Overall Frequency Stability including Temperature, Supply, 2:1 VSWR load, and Aging	± 20 ppm
Operating Temperature	-40° to +85°C
Tuning Voltage Range	0.15V to 3.15V
Frequency Adjust over tuning voltage range	± 80 ppm over operating temperature
Linearity	± 10% max.
RMS phase jitter	< 5 psec
RMS phase jitter (50 kHz to 80 MHz)	< 1 psec

Environmental Limits:

VCXO

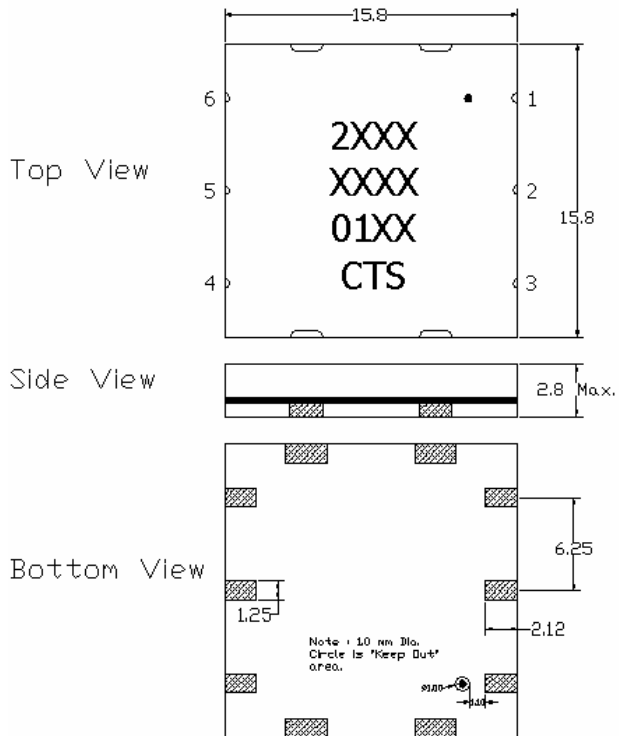
Storage Temperature	-40 to +90 °C.
Humidity	95% Relative humidity max @ 70°C.
Vibration	10 to 60 Hz with double amplitude of 1.52mm max. (1/2 hour in each of 3 perpendicular planes).

Mechanical Dimensions (mm):

Pin Location:

- 1] RF output
- 2] /RF output
- 3] Vc
- 4] GND
- 5] E/D
- 6] Vcc, supply voltage

Enable: Vcc
Disable: GND



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