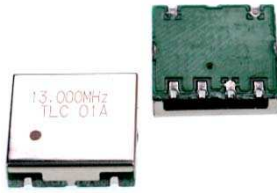


Temperature Compensated Crystal Oscillator (TCXO/VCTCXO)

High stability
Metal Sealed
Discrete type

Pb-free : RoHs compliance



CO-CS1196 , CO-CS1196V

■ Typical applications

- Telecommunication, Base Station, etc.

■ Features

- 10.000 to 40.000 MHz.
- Low Phase Noise, Low Current Consumption.
- Torimeterless Type, Clipped Sine Wave, 6Pads.
- Package : Metal Can + Epoxy Glass base.
- 11.4x9.6x2.3mm

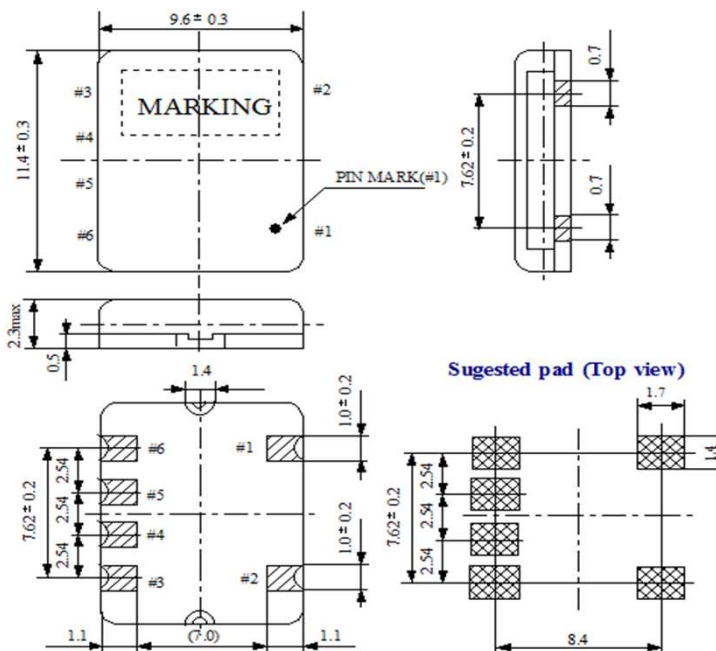
■ Specifications

Model		CO-CS1196	CO-CS1196V
Available Frequency Range		10.000 to 40.000 MHz	
Frequency Stability	Tolerance (at 25°C)	±0.5 ppm	
	Temperature (Ref. to 25°C)	±1.5 ppm / ±2.0 ppm / ±2.5 ppm / 3.0 ppm (-30 to +75°C) ±2.5 ppm / ±3.0 ppm (-40 to -85°C)	
	Supply Voltage Change	±0.2 ppm	
	Load Change	±0.2 ppm	
Power Supply Voltage		+3.0V, +3.3V, +5.0V	
Power Supply Current		2.0 mA max.	
Output	Voltage	0.8 Vp-p min.	
	Load	15pF (Fanout 5LS-TTL)	
	Waveform	H-CMOS	
External Control Function		—	±20.0 and ±40 ppm / +2.5±2.0V DC
Storage Temperature Range		-40 to +85°C	
Phase Noise		-135 dBc/Hz max (at 1KHz)	

■ Environmental Characteristics

Description	Specification
Aging (at 25°C)	±1.0 ppm max / Year (at 25°C)
Fall Shock	Test : 3 time free drop onto concrete board from 150cm high Result: ±1.0 ppm max.
Vibration Shock	Test : Freq. 5-500Hz, Amplitude 1.5mm, Test time 4cycles/XYZ axis Result: ±1.0 ppm max.
Solderability	Test : Immersed into solder bath at 235±° C for 3 sec. Result: More than 95%
Humidity	Test : 90 to 95%RH at 60±3°C±500 hours Result: ±1.0 ppm max.
Reflow Heat	Test : 2 times of IR reflow soldering in accordance with reflow temperature profile as per the document No.:TR-0531 Result: ±1.0 ppm max.

■ Outline Drawing & Suggested Pad



TERMINAL	CONNECTION	
	TCXO	VCTCXO
#1	GND	GND
#2	GND	GND
#3	OUTPUT	OUTPUT
#4	GND	GND
#5	NC	Vcont
#6	Vcc	Vcc