



FEATURE

The SMK2020 TOCX0 is the cost effective highly stable oscillator for telecom applications.

Frequencies available are from 5MHz to 500MHz, and power supply options are 3.3V, 5V & 12V.

These 20 x 20 mm package series of oscillators are designed with an embedded post-compensation system with a micro-controller.

APPLICATION

Sync E modules

Stratum 3E timing modules

Time and frequency references

Tests equipment

20*20*10mm



Specification for electrical appliances

Parameter	12.0V		Unit
	MIN	MAX	
Supply Voltage (VDD) 5%	11.4	12.6	V
Frequency Range	5	500	MHz
Standard Frequency	100.000000		
Frequency Tolerance*	±0.5		ppm
Output waveform	Sine		
Vs Load (12V±5%) change@25°C	±0.5		ppm
Load Variation @50 Ω ±5%	±0.5		ppm
Ageing (first year)	±0.5		ppm
Temperature Stability (-55°C~+90°C)	±0.5		ppm
Short Tem Stability (in still air)	0.5		ppb/s
power consumption (during warm up)	1.0		W
power consumption (at steady state)	0.5		W
control voltage (Nominal=2.5v)	0 to 5.0		V
frequency control range (0Vdc)	5.0		ppm
frequency control range (5Vdc)	5.0		ppm
Linearity	10		%
Harmonics level	-35		dBc
Spurious level	-75		dBc
Input impedance	100		k Ω
Operating temperature range	-55	90	° C



100.00MHz SMK2020TOCAI ocxo ssp phase noise

Phase Noise		Unit
10Hz	-95	dBc/Hz
100Hz	-120	
1KHz	-150	
10KHz	-160	
100KHz	-165	

Environmental Parameters

Storage Temperature Range: - 55 to 90° C

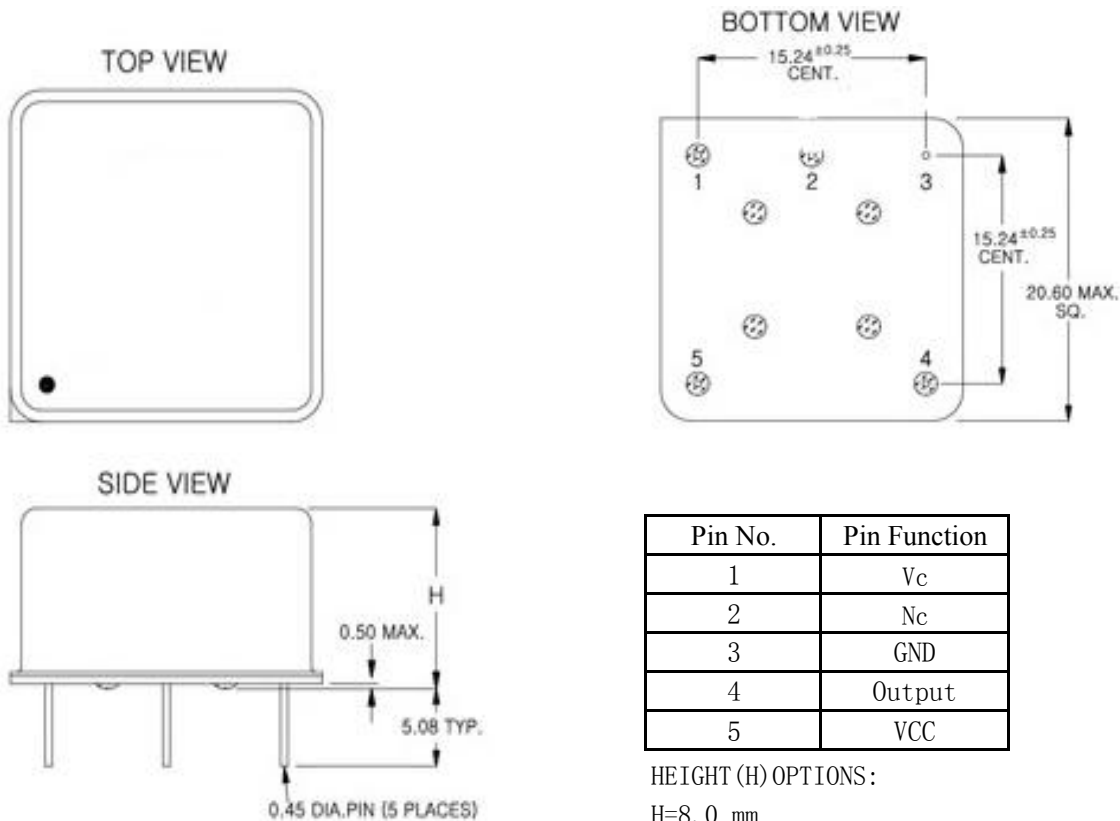
Frequency stability over temperature in still air

Shock: IEC 60068-2-27, Test Ea: 1500G acceleration for 6ms, 3 shocks in each of 3 mutually perpendicular planes

Vibration: IEC 60068-2-6, Test Fc, Procedure B4: 10Hz-60Hz, 1.5mm displacement, 60-2000Hz at 98.1m/s², 30mins in 3 mutually perpendicular planes at 1 oct/min

Solderability: MIL-STD-202, Method 208, Category 3

Mechanical Dimensions



HEIGHT (H) OPTIONS:

H=8.0 mm

H=10.0mm