



FEATURE

The SMK20130CAI OCXO is the cost effective highly stable oscillator for telecom applications. Frequencies available are from 10MHz to 100MHz, and power supply options are 3.3V, 5V & 9V. These 20 x 13 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

Specification for electrical appliances

Parameter	3.3V		Unit
	MIN	MAX	
Supply Voltage (VDD) 5%	3.15	3.45	V
Frequency Range	10	500	MHz
Standard Frequency	100.000000		
Frequency Tolerance*	0.2		ppm
Output waveform	Sine wave		
Vs Load ($\pm 5\%$) change@25°C	± 0.2		ppm
Load Variation	± 0.2		ppm
Ageing (first year)	± 0.02		ppm
Temperature Stability (-40°C ~ +85°C)	± 0.5		ppm
Level	5.0		dBm
Load	50		Ω
Operating Current	30		mA
control voltage (Nominal=1.65v)	0 to 3.0		V
frequency control range (0V-5V)	5.0	5.0	PPm
Harmonics level	-30		dBc
Spurious level	-75		dBc
Operating temperature range	-40	85	$^{\circ}$ C



100.000MHz ocxo ssp phase noise

Phase Noise		Unit
10Hz	-75	dBc/Hz
100Hz	-105	
1KHz	-135	
10KHz	-140	
100KHZ	-150	

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

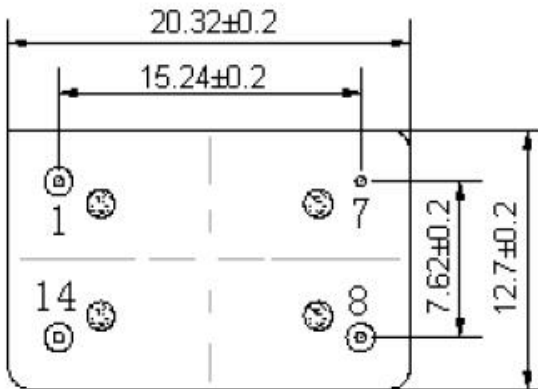
Vibration: IEC 60068-2-6, Test Fc, Procedure B4: 10Hz-60Hz, 1.5mm

displacement, 60-2000Hz at 98.1m/s², 30mins in 3 mutually

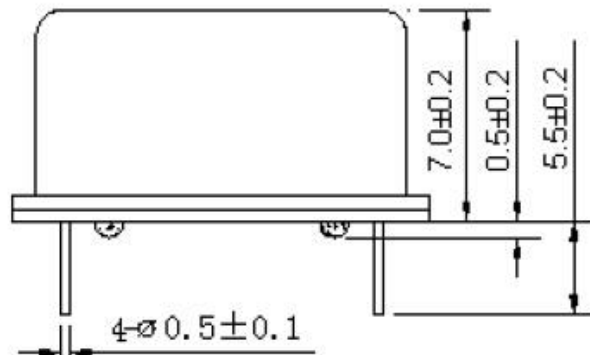
perpendicular planes at 1 oct/min

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

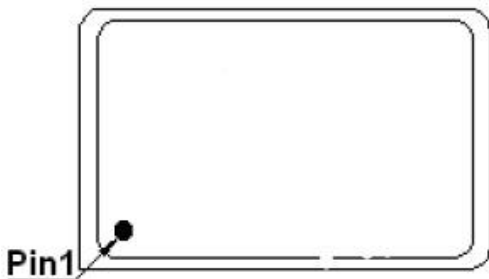
DIMENSION (mm)



BOTTOM VIEW



FRONT VIEW



TOP VIEW

Pin No.	Pin Function
1	VC
7	GND
8	Oouput
14	VS