UK SIMAKE COMMUNICATION GROUP LTD

Model:SMKRISOA-100.00MHz

FEATURE

The SMK20200CAI OCXO is the cost effective highly stableoscillator 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*8mm

Pb Free | RoHS Compliant Directive 2002/95/EC

Specification for electrical appliances

Parameter	5.0V		Unit
	MIN	MAX	
Supply Voltage(VDD) 5%	4.75	5.25	V
Frequency Range	5	500	MHz
Standard Frequency	100.000000		
Frequency Tolerance*	±0.1		ppm
Output waveform	Sine		
Vs Load (5V±5%) change@25℃	±5.0		ppb
Load Variation @50Ω ±5%	±5.0		ppb
Ageing (first year)	±0.05		ppm
Temperature Stability (-40℃～+85℃)	±50		ppm
Short Tem Stability (in still air)	0.05		ppb/s
power consumption (during warm up)	200.0		mA
power consumption (at steady state)	500		mA
control voltage (Nominal=2.5v)	0 to 5.0		V
Traction range (0Vdc)	≤-0.5		ppm
Traction range (5.0Vdc)	≥0.5		ppm
Slope	positive slope		
Linearity	≤10		%
Harmonics level	-40		dBc
Spurious level	-70		dBc
Input impedance	≥100		kΩ
Operating temperature range	-40	85	° C

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100.00Mhz SMK20200CAI ocxo ssp phase noise

Phase Noise		Unit
10Hz	-100	dBc/Hz
100Hz	-130	
1KHz	-155	
10KHz	-158	
100KHz	-160	

Environmental Parameters

Storage Temperature Range: -55 to 90° C

Frequency stability over temperature in still air

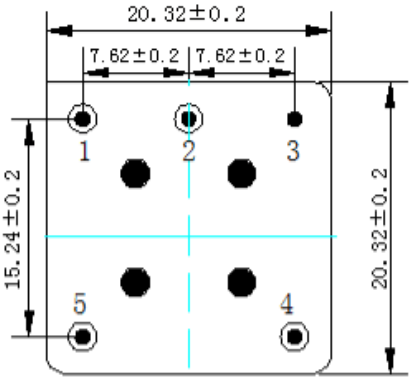
Shock: IEC 60068-2-27, Test Ea: 1500G acceleration for 6ms, 3 shocks in each of 3 mutually perpendicular planes

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

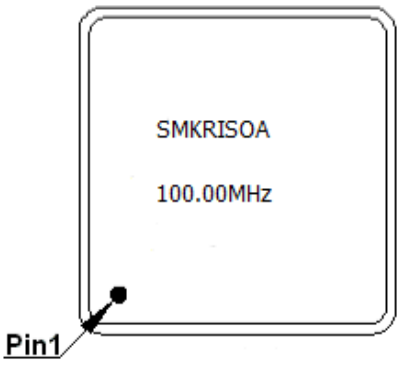
Solderability: MIL-STD-202, Method 208, Category 3

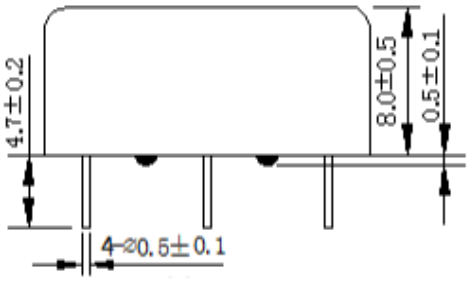
Bottom View

DIMENSION (mm)



Top View





side view

Pin No.	Pin Function
1	Vc
2	Nc
3	GND
4	Output
5	intput

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