FEATURE

The SMK36270CAI OCXO is a cost effective stable oscillator for telecom applications.
Frequencies available are from 5 MHz to 40 MHz, and power supply options are 3.3 V, 5 V & 12 V.
They are optimized designs for the Stratum 3E and up to Stratum 2.
For new designs,

36*27*14mm

APPLICATION

Stratum 3E timing modules
Time and frequency references
Wireless Base Stations
LTE-TDD Base Stations

Specification for electrical appliances

Parameter	5.0V		3.3V		Unit
	MIN	MAX	MIN	MAX	
Supply Voltage(VDD) 5%	4.75	5.25	3.135	3.465	V
Frequency Range	5	40	5	40	MHz
Standard Frequency	10, 12.8, 13, 20, 26, 40				
Frequency Tolerance*	±5		±5		ppb
Vs Load (±10%) change	±10		±10		ppb
Vs Aging	±10		±10		
Input power (warm up)	1.5		1.5		W
	3.5		3.5		W
Output Level (CMOS)					
Output voltage level high (VOH)	2.4		2.4		V
Output voltage level high (VOL)	0.4		0.4		
Rise & fall time	5		5		ns
Vc Input Impedance	100		100		KΩ
Phase Noise					
10Hz	-125				dBc/Hz
100Hz	-145				
1KHz	-152				
10KHz	-157				
Operating temperature range	-40	85	-40	85	°C

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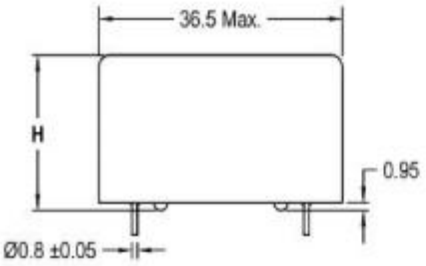
10.00Mhz SMK36270CAI ocxo ssp phase noise

Frequency Range	Temp Range	Stability	Output	Supply
5.00 to 40.000MHz	(0 to 50°C)	±0.30ppm	Clipped sine	/
	(-20 to 70°C)	±0.30ppm		/
	(-30 to 75°C)	±0.30ppm		/
	(-40 to 85°C)	±0.30ppm		/

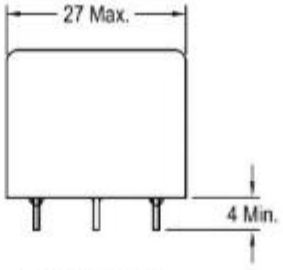
Environmental Parameters

Storage Temperature Range: -50 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/s^2, 30mins in 3 mutually perpendicular planes at 1 oct/min
Solderability: MIL-STD-202, Method 208, Category 3

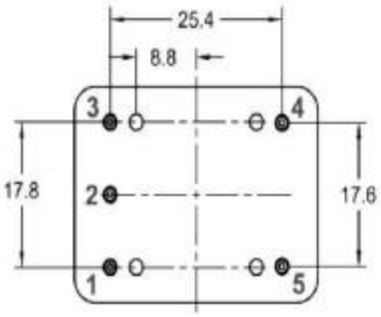
DIMENSION (mm)



FRONT VIEW



SIDE VIEW



BOTTOM VIEW

PIN CONNECTIONS

1	VC (Frequency Control)
2	VREF (Reference Voltage)
3	VCC (Power Supply)
4	Output (Output Signal)
5	GND

HEIGHT (H) OPTIONS:

H = 13.7 mm Max, or
H = 19.0 mm Max.

NOTE:

Outline unit is mm.
Tolerance is ± 0.2mm if it has not been indicated.

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