



## FEATURE

The SMK25220CAI is an OCXO Stratum 3E fully compliant.

Frequencies available are from 10MHz to 40MHz,

and power supply options are 3.3V, 5V & 12V.

These 25 x 22 mm package series of oscillators are designed with direct heating on a single board.

25\*22\*12 mm

## APPLICATION

SyncE modules

Stratum 3E timing modules

Time and frequency references

Test equipment



## Specification for electrical appliances

Parameter	5.0V		12V		Unit
	MIN	MAX	MIN	MAX	
Supply Voltage(VDD) 5%	4.75	5.25	11.4	12.6	V
Standard Frequency	10, 12.8, 20, 40, 50, 80, 100				MHz
Frequency Tolerance*	10		20		ppb
Vs Load ( $\pm 5\%$ ) change	$\pm 10$		$\pm 10$		ppb
vs Load changes 50 Ohm ( $\pm 5\%$ )	$\pm 10$		$\pm 10$		
Short term stability @ tau = 1 sec	0.01		0.01		
Aging	$\pm 50$		$\pm 50$		
Power consumption	3.5		3.5		W
	1.5		1.5		W
Output voltage	sine wave				
Harmonics	$\leq -30$		$\leq -30$		dBc
Spurious (10 Hz to 1 MHz )	$\leq -70$		$\leq -70$		
Output voltage level	$\geq +5.0$		$\geq +5.0$		dBm
load	50		50		$\Omega$
Frequency control range	$\geq 0.5$		$\geq 0.5$		ppm
Frequency control voltage range	0	5.0	0	5.0	V
Phase Noise					Unit
10Hz	-110				dBc/Hz
100Hz	-135				
1KHz	-150				
10KHz	-160				

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## Environmental Parameters

Storage Temperature Range: -55 to 90° C

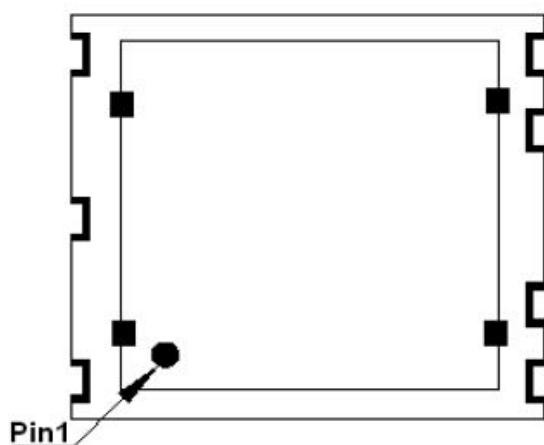
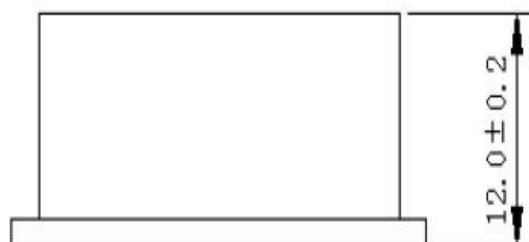
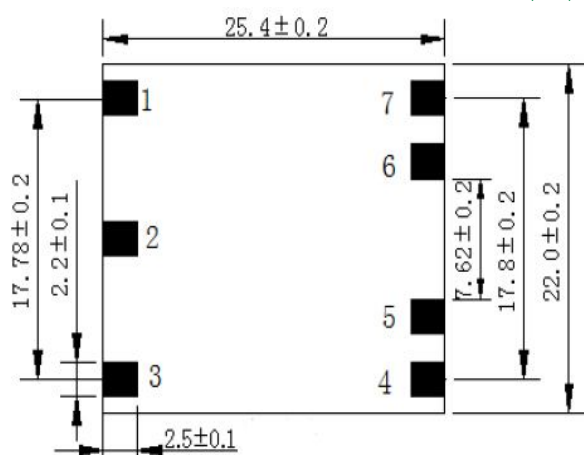
Frequency stability over temperature in still air

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/s<sup>2</sup>, 30mins in 3 mutually perpendicular planes at 1 oct/min

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

## DIMENSION (mm)



Pin configuration	
1	Vcc
2	Nc
3	Vc
4	GND
5	Nc
6	Nc
7	OUTPUT

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