



**FEATURE**

The SMK2522CAI 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		3.3V		Unit
	MIN	MAX	MIN	MAX	
Supply Voltage(VDD) 5%	4.75	5.25	3.135	3.465	V
Frequency Range	10	40	10	40	MHz
Standard Frequency	10, 12.8, 13, 20,24.576,26,40				
Frequency Tolerance*	±5-±10		±5-±10		ppb
Vs Load (±10%) change	±10		±10		ppb
Vs Aging	±10		±10		
Power consumption	3.5		3.5		W
	1.5		1.5		W
Output voltage level high (VOH)	2.4		2.4		V
Output voltage level low (VOL)	0.4		0.4		
Rise & fall time	5		5		ns
Vc Input Impedance	100		100		KΩ
Start Time	2		2		mSec
Operating temperature range	-40	80	-40	80	°C
10.00Mhz ocxo ssp phase noise					Unit
Phase Noise					dBc/Hz
10Hz	-125				
100Hz	-144				
1KHz	-155				
10KHz	-155				



**Environmental Parameters**

Storage Temperature Range: -55 to 90°C

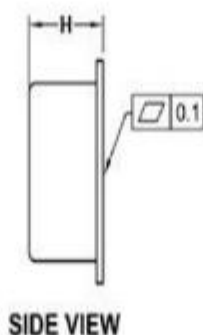
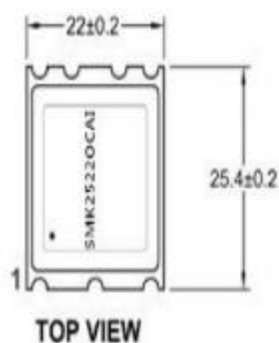
Frequency stability over temperature in still air

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

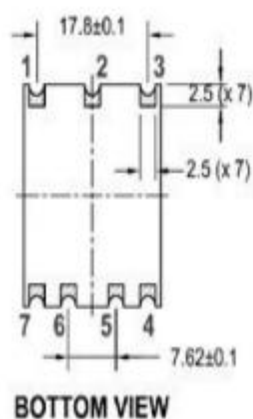
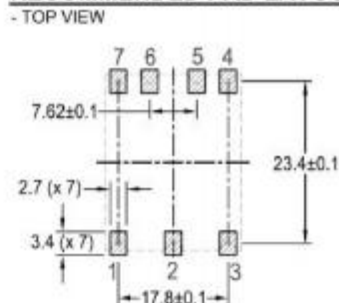
Vibration: IEC 60068-2-6, Test Fc, Procedure B4: 10Hz-60Hz, 1.5mm displacement, 60-2000Hz at 98.1m/s<sup>2</sup>, 30mins in 3 mutually perpendicular planes at 1 oct/min

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

**DIMENSION (mm)**



**RECOMMENDED PAD LAYOUT**



**PIN CONNECTIONS**

- 1 Do Not Connect
- 2 Do Not Connect
- 3 Vcc (Supply Voltage)
- 4 Output (RF Output Signal)
- 5 Do Not Connect
- 6 Do Not Connect
- 7 GND

**HEIGHT (H) OPTIONS:**

- H = 11.5 mm, or
- H = 15.2 mm

**NOTE:**

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