



FEATURE

The SMK52420CAI belongs to a range of super single oven OCXOs designed as a compact and smart frequency source and time keeping reference for all synchronization systems, including precision positioning system bases equipment.

Applications

Stratum 2 timing modules
Time and frequency references
Wireless Base Stations (GSM,UMTS, CDMA, LTE)
Instrumentation and Broadcasting

52*42*14 mm



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	15	5	15	MHz
Standard Frequency	10 12. 8 13 15				
Frequency Tolerance*	±0. 2		±0. 2		ppb
Vs Load (±10%) change	±10		±10		ppb
Vs Aging	±10		±10		
Power consumption	8		8		W
	3. 5		3. 5		W
Output Level (CMOS)					
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		K Ω
Operating temperature range	-40	85	-40	85	° C

EMAIL: EVA@CIMAKE.COM.CN MARK@CIMAKE.CO.UK

TEL: +44 0208 492 6388 FAX: +44 0208 492 0196

COMPANY ADDRESS: 419, HARBOME ROAD , EDGBASTON, BIRMING.B15 3LB



10.00Mhz SMK52420CAI ocxo ssp phase noise

Phase Noise		Unit
10Hz	-140	dBc/Hz
100Hz	-155	
1KHz	-160	
10KHz	-165	

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

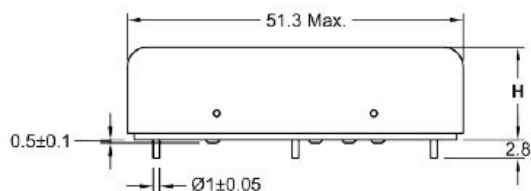
shocks in each of 3 mutually perpendicular planes

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

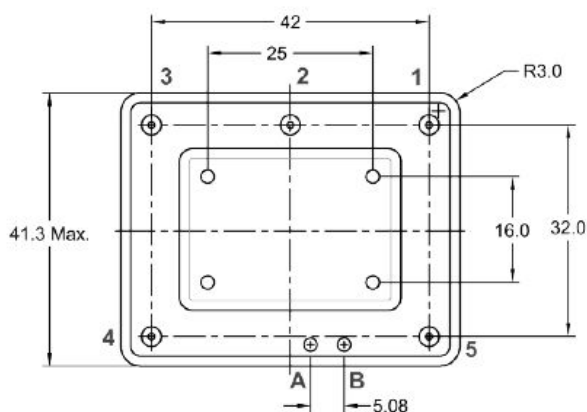
displacement, 60-2000Hz at 98.1m/s², 30mins in 3 mutually perpendicular planes at 1 oct/min

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

DIMENSION (mm)



FRONT VIEW



BOTTOM VIEW

HEIGHT (H) OPTIONS:

H = 14 mm, or

H = 19 mm.

NOTE:

Outline unit is mm.

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

PIN CONNECTIONS

- 1 GND
- 2 Vc (Frequency Control)
- 3 VREF (Reference Voltage)
- 4 Vcc (Power Supply)
- 5 Output (Output Signal)
- A Do Not Connect (For Internal Use)
- B Do Not Connect (For Internal Use)

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