



Features and Benefits

10-40MHz Frequency Range
3.3V,5V,12V Supply voltage
HCMOS, Sinewave Output waveform
Various Temperature Stability Available
25x22x14mm SMD Size
-145dBc/Hz @1KHz phase noise value

Typical Applications

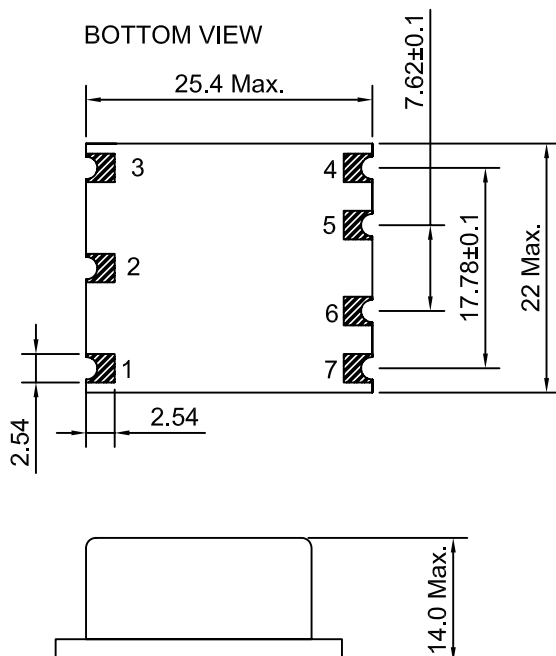
SatCom
Test equipment
Network clock
Base station

Description

The OCXO2522AN_series are designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short-term stability. These characteristics make it an excellent choice for timing applications.

Mechanical Drawing & Pin Connections

Drawing No: MD160044-3



Pin	Signal
1	Control Voltage
2	Reference Voltage
3	VCC
4	RF Output
5	N.C.
6	N.C.
7	GND

Unit in mm
1mm = 0.039 inches





Ordering Information

OCXO2522AN	-	10MHz	-	x	x	x	x	x	x
Group				01	02	03	04	05	06

For example, OCXO2522AN-10MHz-1-1-2-2-1 denotes the OCXO has the following specifications:

Temperature Range: 0°C to +55°C
Stability Over Temperature: ±50ppb
Aging / per year: ±0.1ppm
Supply Voltage: 5V
Output: Sinewave
Phase noise: Code 1
Frequency: 10MHz

option 01	Temperature Range	option02	Frequency Stability			
Code	Specification	Code	1	2	3	4
			±50ppb	±20ppb	±10ppb	±5ppb
1	0°C to +55°C		A	A	A	A
2	-10°C to +60°C		A	A	A	C
3	-20°C to +70°C		A	A	A	C
4	-40°C to +70°C		A	A	C	N
5	-40°C to +85°C		A	C	N	N
A= Available C=Contact factory. N=Not available.						

option 03	Availability of certain aging values for certain frequencies	Standard Frequencies (MHz)				
		10	12.8	13	16.384	20
		20	25.6	26	32.768	40
Code						
1	±2x10 ⁻⁷ /year	A	A	A	A	A
2	±1x10 ⁻⁷ /year	A	A	A	A	C
3	±5x10 ⁻⁸ /year	A	A	A	C	N
4	±3x10 ⁻⁸ /year	A	C	C	N	N
A= Available C=Contact factory. N=Not available.						

option 04	Supply Voltage
Code	Specification
1	3.3V
2	5V

option 05	Output
Code	Specification
1	HCMOS
2	Sinewave



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Option 06	Phase Noise,10MHz, Sinewave(dBc/Hz)					
	5V			3.3V		
	Code 0	Code 1	Code 2	Code 0	Code 1	Code 2
Frequency offset						
1Hz	--	<-90	<-100	--	<-85	<-95
10Hz	<-120	<-120	<-130	<-115	<-115	<-125
100Hz	<-135	<-140	<-145	<-130	<-135	<-140
1KHz	<-145	<-150	<-150	<-140	<-145	<-145
10KHz	<-150	<-155	<-155	<-145	<-150	<-150
Contact factory for lower phase noise performance (Code 1 & 2, Sinewave Only)						

Additional Notes:

- 1) Advise RoHs requirement.
- 2) Contact factory for daily aging values.
- 3) Contact factory for non-standard temperature range
- 4) Temperature ranges from -60°C to +85°C available. Please Contact DEI.