

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

Features and Benefits

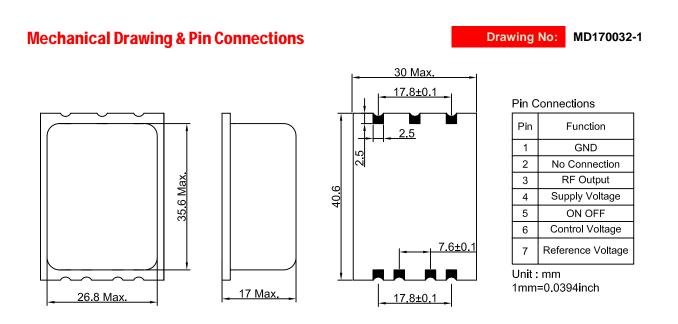
High frequency stability(up to ±2ppb over -40°C to +85°C) Low G Sensitivity (up to 1.5 ppb/g) Long Term Stability up to ±30 ppb per year On / Off Function +12V Sinewave Output Allan deviation less than 0.001 ppb (1E-12) for tau = 1 second Surface Mount package

Typical Applications

Base Station SATCOM Network Clock Test Equipment

Description

OXO3562Z-10MHz-A-V offers high frequency stability and low G sensitivity, along with low phase noise and dependable long term stability and quality all in one smart package.



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Specifications

Oscillator	Sym	Condition	Value			1 Junit	Nete
Specification			Min.	Тур.	Max.	Unit	Note
Nominal Frequency				10		MHz	
Output Waveform				Sinewave			
Output Level				>400		mV	
Output Load		±5%		50		Ω	
Harmonic Suppression				>-30		dBc	
G-Sensitivity				1.5		ppb / g	
Power Supply							
Supply Voltage	Vs	±5%		12		V	10.6V to 12.6V options available
Steady State Current		@ +25°C		<150		mA	
Peak Warm-up Current		@ >-20°C		<400		mA	
Warm-up Time to <±20 ppb		@+25°C		<5		min	
Frequency Adjustment Range							
Frequency Adjust Range				>±400		ppb	
Frequency Adjust Voltage	U _{in}		0		+5	V	
Reference Voltage	U _{ref}			+5		V	
Frequency Stability							
Vs Operating Temperature				<±2.0		ppb	
Vs Supply Voltage changes	Vs	±5%		<±0.5		ppb	<±0.2 ppb available
Vs Load changes		±5%		<±0.5		ppb	<±0.2 ppb available
Aging Per Year				<±30.0		ppb	
Allan Deviation (Short Term Stability)		Tau = 1 sec		<0.001		ppb	
Phase Noise @ 10 MHz		1 Hz offset		<-105		dBc / Hz	
		10 Hz offset		<-135			
		100 Hz offset		<-155			
		1 KHz offset		<-160			
		10 KHz offset		<-161			
Environmental Conditions							
Operating Temperature Range			-40		+85	°C	
Storage Temperature Range	ļ		-40		+85	°C	
Vibration Frequency			10		500	Hz	10 – 2000 Hz optional
Vibration Acceleration			10		g		
Shock Acceleration			L	100		g	
Shock Duration			3 ±1			mS	
Humidity			98			%	
RoHs				Yes			

Note:Contact DEI for daily aging values. General rule: x 10^{-x} / year = x $10^{-(x+2)}$ / day