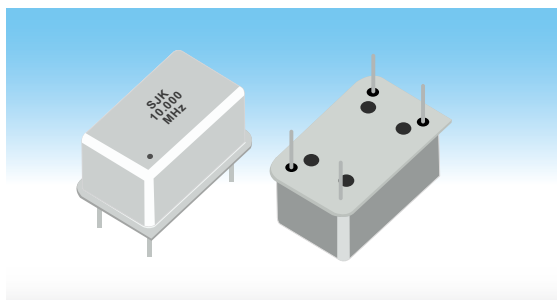


OCXO / oven Controlled Crystal Oscillator

2X Series Thru-hole DIP14 OCXO 10MHz~125MHz O: CMOS/Sine-Wave Size: 20.5×12.9×10.0mm



Features

- High Q factory crystal, high reliability
- Small size thru-hole DIP14 OCXO with 20.5×12.9×10.0mm
- Low power consumption, Fast warm-up
- Voltage control (Electronic Frequency Tuning) is standard
- CMOS/Sine-wave output with frequency range: 10MHz~125MHz
- Low aging, high stability, frequency stability best to ± 1.0 ppb
- Application for small base communication, Test & Measurement, Frequency synthesis, Wireless communication, Radar system, etc
- RoHS Compliant /Pb Free



Standard Specifications

Item	Type	2X Series Thru-hole DIP14 OCXO	
Frequency Range		10MHz~125MHz	
Initial Frequency Accuracy		± 50 ppb max.	
Frequency Stability	vs. Supply Voltage	± 0.5 ppb max. ($V_{cc} \pm 5\%$)	
	vs. Load	± 0.5 ppb max. (Load $\pm 5\%$)	
	vs. Aging	± 0.5 ppb max./after 30 days ; ± 50 ppb max./first year	
Short Term Stability@100MHz		≤ 0.01 ppb/s	≤ 0.03 ppb/s
Supply Voltage		+3.3V / +5.0V / +12V	
Power Consumption		2.5W (max.) ; 0.6W max. (@steady-state.)	
Output Level		LVC MOS	Sine-Wave
Output Load		15pF	50 Ω
Harmonics		-40dBc max.	
Spurious		-80dBc max.	
Voltage Control Characteristics		Analog $\geq \pm 1.0$ ppm min.	
		$V_c = 1.65 \pm 1.65V$; $V_c = 2.0 \pm 2.0V$; $V_c = 2.5 \pm 2.5V$;	
		Fixed frequency (without voltage control)	
Storage Temperature		-55~+105°C	
Package Size (mm)		20.5×12.9×10.8	

Note: Final product specifications are subject to official specifications.

Frequency Stability vs Operating Temperature Range

Frequency Stability	Temp. Range	-20~+70°C	-40~+70°C	-40~+85°C	-55~+85°C
$\leq \pm 1.0$ ppb		Δ	Δ	Δ	Δ
$\leq \pm 3.0$ ppb		$\bigcirc$	$\bigcirc$	$\bigcirc$	Δ
$\leq \pm 5.0$ ppb		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
$\leq \pm 10$ ppb		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
$\leq \pm 20$ ppb		$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$

Note: $\bigcirc$: Available; Δ : Contact Us; X: Not available

Phase Noise @100MHz

Phase Noise (dBc/Hz)					
1Hz	10Hz	100Hz	1KHz	10KHz	100KHz
-90 max.	-95 max.	-125 max.	-155 max.	-170 max.	-170 max.

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OCXO Package Size And Pin Function

Unit: mm

20×14 (DIP14)

