

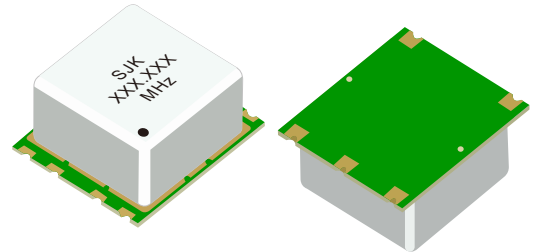
SMD Type
5X2

[25.4×22.1×13.2 mm]

Waveform
Sine Wave
Best Stability
±5 ppb
Voltage Control
Supply Voltage
5.0V / 12.0V
Frequency Range
10MHz~100MHz

Features

- Oven Controlled Crystal Oscillator (OCXO)
- Dimension 25.4×22.1×13.2 mm, surface mount package
- Sine wave output, frequency range from 10MHz to 100MHz.
- ±20ppb stability over -40°C to +85°C.
- SC-Cut Crystal.
- Voltage control (Electronic frequency tuning) is available.
- RoHS Compliant
- Applications: SDH/SONET, Base station, Digital switch, Test equipment, Synthesizer, Measuring equipment, etc.



Standard Specifications

5X2 (SMD 25.4×22.1×13.2 OCXOs)

Parameter	Min.	Typ.	Max.	Unit	Test Condition
Output Frequency	10	-	100	MHZ	Standard frequencies are 10, 12.8, 19.2, 20, 25, 30.72MHz and more.
Wave Form	-	Sine Wave	-	-	Please contact us for detail information
Level	8	10	12	dBm	
Load	-	50	-	Ω	
Harmonics	-	-	-30	dBc	
Spurious	-	-	-60	dBc	
Frequency stability Tolerance	-10	-	+10	ppb	
vs. Temperature	±5ppb~±100			ppb	
vs. Supply voltage	-5	-	+5	ppb	±5% Change
vs. Load	-5	-	+5	ppb	
vs. Warm-up	-50	-	+50	ppb	In 3 minutes @ 25°C, reference to 1 hour
vs. Aging	-	-	-	-	
Daily	-0.5	-	+0.5	ppb	After 30 days continues operation
Yearly	-50	-	+50	ppb	
10 Years	-0.3	-	+0.3	ppm	



OCXO (Oven Controlled Crystal Oscillator)

SMD Type

5X2

[25.4×22.1×13.2 mm]

Waveform

Sine Wave

Best Stability

±5 ppb

Voltage Control

Supply Voltage

5.0V / 12.0V

Frequency Range

10MHz~100MHz

Standard Specifications

5X2 (SMD 25.4×22.1×13.2 OCXOs)

Parameter	Min.	Typ.	Max.	Unit	Test Condition	
Phase noise	-	-	-142	dBc/Hz	@ 10Hz	
	-	-	-155		@ 100Hz	
	-	-	-165		@ 1KHz	
	-	-	-170		@ 10KHz	
Electrical Frequency Adjustment	-	-	-			
Range	-	-	-3.0	ppm	VCO@0 V	
	3.0	-	-		VCO@ 12.0V	
Control	0	2.0 / 5.0	4.0 / 10.0	V	5.0V or 12.0V supply voltage	
Slope	-	Positive	-	-		
Linearity	-10	-	10	%		
Input Power	Voltage	11.4	12	12.6	V	5.0V input voltage is available
	Current	-	-	500	mA	@ turn on
	Steady State	-	-	2.1	W	@ ±25°C
Operating Temperature	-40	-	+85	°C		
Storage Temperature	-40	-	-85	°C		

Dimensions And Pin-functions (Unit: mm)

Top View

Bottom View

Side View

Top View Suggested Layout

Pin Connections

Pin No.	Connection
1	Vco Input /NC
2	Reference Voltage /NC
3	Vcc
4	R.F. Output
5	0 Volts & Case