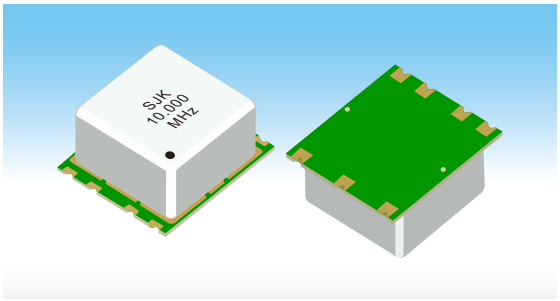
OCXO / Oven Controlled Crystal Oscillator

5X Series SMD 25×22 OCXO | **10MHz~125MHz** | **O: CMOS/Sine-Wave** | **Size: 25.4×22.0×12.0mm**



Features

- High Q factory / Low aging crystal, high reliability
- SMD package OCXO with 25.4×22.0×12.0mm
- Voltage control (Electronic Frequency Tuning) is standard
- CMOS/Sine-wave output with frequency range: 10MHz~125MHz
- High stability, frequency stability best to ±0.5ppb
- Application for base, Test & Measurement, Broadcasting system, Frequency synthesis, Wireless communication, Radar system, etc
- RoHS Compliant /Pb Free

Standard Specifications

Item \ Type		5X Series SMD 25×22 OCXO	
Frequency Range		10MHz~125MHz	
Initial Frequency Accuracy		±50ppb max.	
Frequency Stability	vs. Supply Voltage	±0.5ppb max. (Vcc±5%)	
	vs. Load	±0.5ppb max. (Load±5%)	
	vs. Aging	±0.2ppb max./after 30 days ; ±20ppb max./first year	
Short Term Stability@100MHz		≤0.01ppb/s	≤0.003ppb/s
Supply Voltage		+3.3V /+5.0V /12.0V	
Power Consumption		3.5W (max.) ; 1.2W max. (@steady-state.)	
Output Level		LVCMOS	Sine-Wave
Output Load		15pF	50Ω
Harmonics		-40dBc max.	
Spurious		-80dBc max.	
Voltage Control Characteristics		Analog ≥±1.0ppm min.	
		Vc=1.65±1.65V; Vc=2.0±2.0V; Vc=2.5±2.5V	
		Fixed frequency (without voltage control)	
Storage Temperature		-55~+105°C	
Package Size (mm)		25.4×22.0×12.0(11.5)	

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
≤±0.5ppb	○	○	○	△
≤±1.0ppb	○	○	○	△
≤±3.0ppb	○	○	○	○
≤±5.0ppb	○	○	○	○
≤±10ppb	○	○	○	○
≤±20ppb	○	○	○	○

Note: ○:Available; △:Contact Us; X: Not available

Phase Noise @10MHz

Phase Noise (dBc/Hz)					
1Hz	10Hz	100Hz	1KHz	10KHz	100KHz
-95 max.	-125 max.	-145 max.	-150 max.	-155 max.	-155 max.

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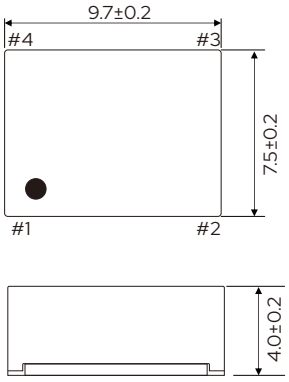
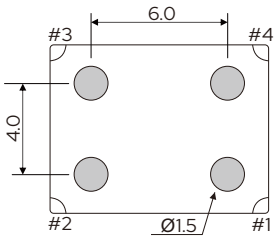
OCXO Package Size And Pin Function

Unit: mm

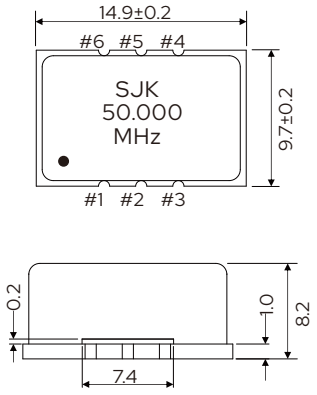
9×7 (SMD)

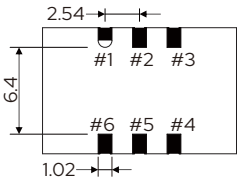




Pin Connections	
Pin No.	Connection
#1	Vcont: EFC NC
#2	GND
#3	Output
#4	Vcc

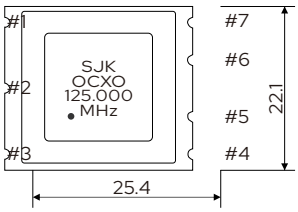
14×9 (SMD)

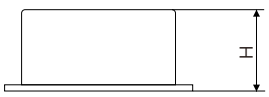




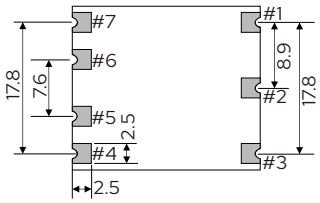
Pin Connections	
Pin No.	Connection
#1	Vcont: EFC GND/NC
#2	NC
#3	GND
#4	Output
#5	NC
#6	Vcc

25×22 (SMD)



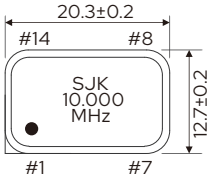


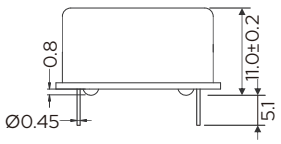
H: Available 11.5mm、12mm

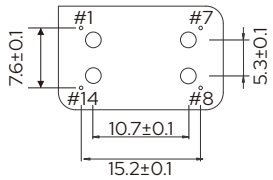


Pin Connections	
Pin No.	Connection
#1	Vcont: EFC NC
#2	Reference Voltage/NC
#3	Vcc
#4	Output
#5	Oven monitor /NC
#6	NC
#7	GND

20×14 (DIP14)

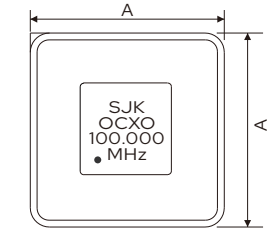




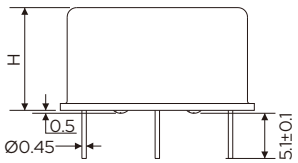


Pin Connections	
Pin No.	Connection
#1	Vcont: EFC GND/NC: OCXO
#7	GND
#8	Output
#14	Vcc

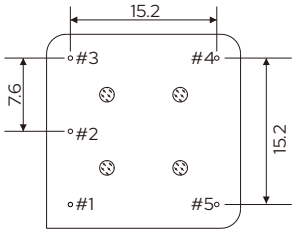
20×20 (DIP)



A: Available 20.6mm、21.7mm

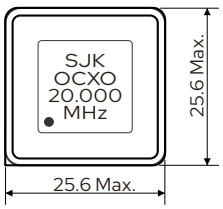


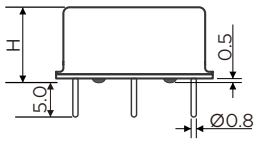
H: Available 10.2mm、11mm



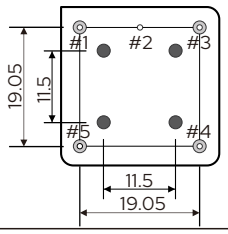
Pin Connections	
Pin No.	Connection
#1	Vcc
#2	Output
#3	GND
#4	Vcont: EFC NC: OCXO
#5	Reference Voltages / NC

25×25 (DIP)



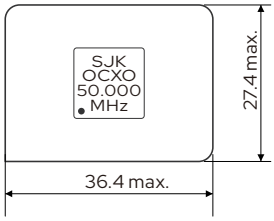


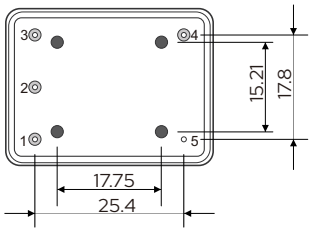
H: Available 10mm、12.5mm、13mm

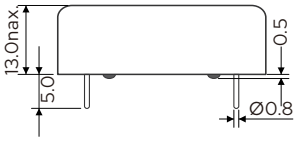


Pin Connections	
Pin No.	Connection
#1	Output
#2	GND
#3	Vcont: EFC / NC: OCXO
#4	Reference Voltages / NC
#5	Vcc

36×27 (DIP)







Pin Connections	
Pin No.	Connection
#1	Vcont: EFC GND/NC
#2	Reference Voltages / NC
#3	Vcc
#4	Output
#5	GND