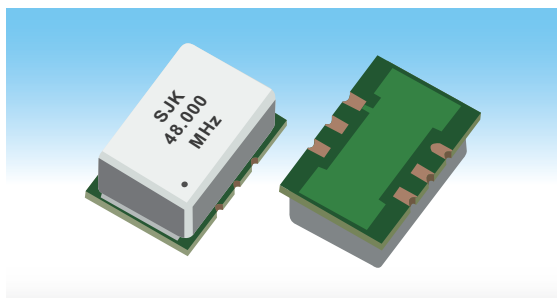


TCXO / Temperature Compensated Crystal Oscillator

9T Series SMD 1409 TCXO/VC-TCXO 5MHz~170MHz Sine Wave /CMOS Size: 14.5×9.6×6.5mm



Features

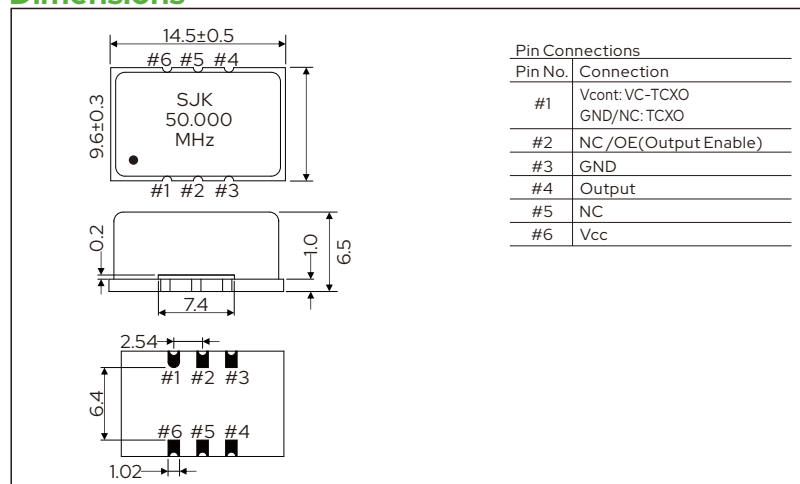
- Small SMD Package, Metal cover FR-4 PCB based SMD
- High stability for stratum 3
- Low phase noise
- Output type: Sine Wave /CMOS
- High frequency range: 5MHz~170MHz
- VCTCXO available
- Application for telecom system, Time synchronization, Test & Measurement, Microwave communications, etc
- RoHS Compliant /Pb Free



Standard Specifications

Item		Type	9T Series SMD 1409 TCXO /VC-TCXO	
Output Frequency Range			5MHz~170MHz	
Supply Voltage			3.3V /5.0V	
Current Consumption			45mA max.	
Output Level			Sine Wave 3dBm Harmonics: -30dBc max.	CMOS "0" level 0.1×Vcc V max. "1" level 0.9×Vcc V min.
Output Load			50Ω	15pF
Frequency Stability	vs. Tolerance		±1.0ppm max.	
	vs. Temperature		±0.5ppm~±4.6ppm max.	
	vs. Supply Voltage		±1.0ppm max.	
	vs. Load		±1.0ppm max.	
	vs. Aging		±1.0ppm/year max.	
Start-up Time			2ms max.	10ms max.
Rise and Fall Time			/	10ns max.
VC-TCXO	Frequency Control Range		±5.0ppm min.	
	Control Voltage Range		1.5V±1V	
	Input impedance		1.0MΩ min.	
	Response Slope		Positive	
Phase Noise	Offset 10Hz		-87dBc/Hz max.	
	Offset 100Hz		-117dBc/Hz max.	
	Offset 1KHz		-141dBc/Hz max.	
	Offset 10KHz		-148dBc/Hz max.	
Operating Temperature Range			-30~+85°C, -40~+85°C, or specify	
Storage Temperature Range			-55~+125°C	

Dimensions



Recommended Land Pattern [mm]

