

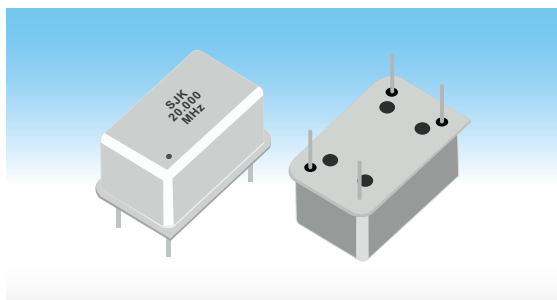
TCXO / Temperature Compensated Crystal Oscillator

6T Series DIP-14 Full-size TCXO

6.4MHz~60MHz

O: Clipped Sine Wave/CMOS

Size: 20.4×12.8×7.0mm



Features

- DIP-14 full-size TCXO, 20.4×12.8×7.0mm
- Low voltage operation
- Output type: Clipped sine wave /CMOS
- High frequency range: 6.4MHz~60MHz
- Low phase noise
- VC-TCXO available
- Application for telecommunications, Avionics, Test equipment, Electronic instruments, Measurements , etc
- RoHS Compliant /Pb Free

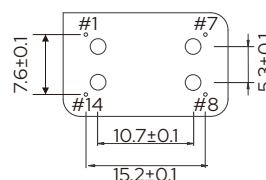
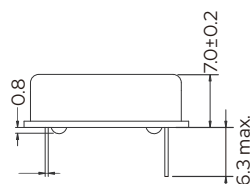
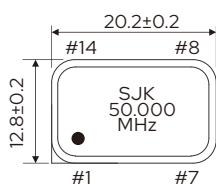


Standard Specifications

Item		Type	6T Series DIP-14 Full-size TCXO /VC-TCXO	
Output Frequency Range			6.4MHz~52MHz	6.4MHz~60MHz
Supply Voltage			1.8V /2.5V /3.0V /3.3V	
Current Consumption			3.5mA max.	13mA max.
Output Level			Clipped Sine Wave 0.8Vp-p min. (DC-Coupled)	CMOS V _{OH} : 0.9V _{CC} min., V _{OL} : 0.1V _{CC} max. Duty Cycle: 40~60%
Output Load			10KΩ//10pF	15pF
Frequency Stability	vs. Tolerance		±2.0ppm max.	±2.0ppm max.
	vs. Temperature		±0.5ppm~±3.0ppm max.	±0.5ppm~±3.0ppm max.
	vs. Supply Voltage		±0.2ppm max.	±0.3ppm max.
	vs. Load		±0.2ppm max.	±0.3ppm max.
	vs. Aging		±1.0ppm/year max.	±1.0ppm/year max.
Start-up Time			5ms max.	10ms max.
Rise and Fall Time			/	10ns max.
VC-TCXO	Frequency Control Range		±5.0ppm min.	
	Control Voltage Range		0.9V±0.6V@V _{CC} (1.8V), 1.4V±1V@V _{CC} (2.5V), 1.5V±1V@V _{CC} (3.0V/3.3V)	
	Input impedance		1.0MΩ min.	
	Response Slope		Positive	
Phase Noise	Offset 10Hz		-80dBc/Hz @13MHz	-96dBc/Hz @10MHz
	Offset 100Hz		-115dBc/Hz @13MHz	-122dBc/Hz @10MHz
	Offset 1KHz		-135dBc/Hz @13MHz	-138dBc/Hz @10MHz
	Offset 10KHz		-148dBc/Hz @13MHz	-145dBc/Hz @10MHz
Operating Temperature Range			-30~+85°C, -40~+85°C, or specify	
Storage Temperature Range			-55~+125°C	

Dimensions

[mm]



Pin Connections

Pin No.	Connection
#1	V _{cont} : VC-TCXO GND/NC: TCXO
#7	GND
#8	Output
#14	V _{CC}