

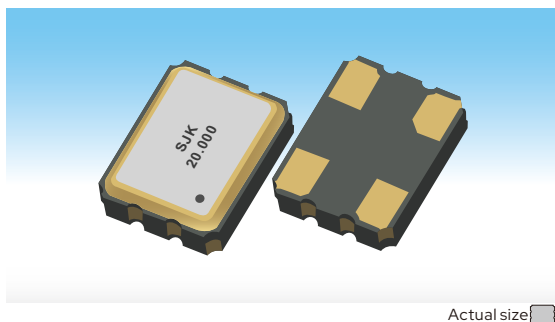
TCXO / Temperature Compensated Crystal Oscillator

7T Series SMD 3225 TCXO

32.768kHz / 6.4~52MHz

O: CMOS

Size: 3.2×2.5×1.0mm



Features

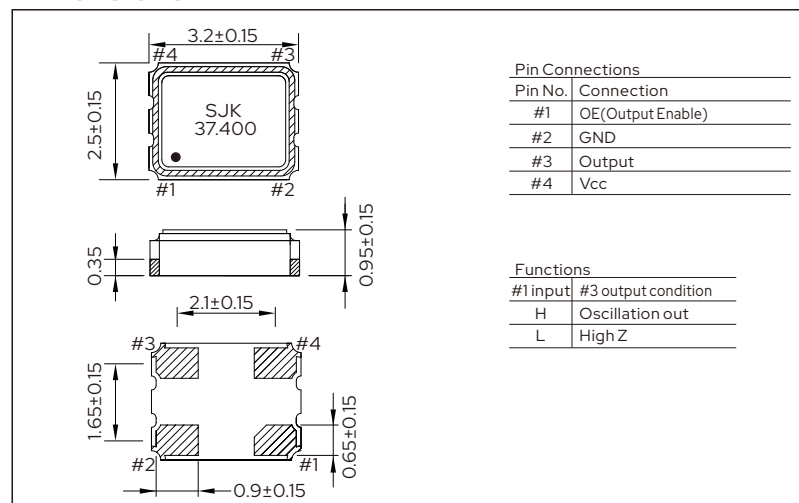
- 3225 size ultra miniature and lightweight SMD TCXO
- Low voltage operation
- 3-state function available
- CMOS output, frequency range: 6.4MHz~52MHz
- 32.768kHz available
- Application for GPS /GNSS, Mobile phone, Wearable device, IoT, Telecommunications, Industrial radio communications, etc
- RoHS Compliant /Pb Free



Standard Specifications

Item	Type	7T Series SMD 3225 TCXO	
Output Type		CMOS	
Output Load		15pF	
Frequency Range		32.768kHz	6.4MHz~52MHz
Supply Voltage		1.8V / 2.5V / 3.3V	
Current Consumption		3μA max.	6mA max.
Stand-by Current		3μA max.	
Frequency Stability	vs. Tolerance	±2.5ppm max. (After 2 reflows)	±1.0ppm max. (After 2 reflows)
	vs. Temperature	±3.8ppm~±5.0ppm max.	±0.5ppm~±3.0ppm max.
	vs. Supply Voltage	±1.0ppm max. (Vcc±5%)	±0.3ppm max. (Vcc±5%)
	vs. Load Variation	±0.2ppm max. (15pF±5%)	±0.3ppm max. (15pF±5%)
	vs. Aging	±3.0ppm max./year	±1.0ppm max./year
Start-up Time		50ms max.	5.0ms max.
0 Level Output Voltage (V _{OL})		Vcc×0.1 max.	
1 Level Output Voltage (V _{OH})		Vcc×0.9 min.	
Rise and Fall Time		200ns max.	10ns max.
Symmetry		40%~60%	
Phase Noise @50MHz	Offset 10Hz		-85dBc/Hz
	Offset 100Hz		-111dBc/Hz
	Offset 1KHz		-133dBc/Hz
	Offset 10KHz		-149dBc/Hz
Operating Temperature Range		-30~+85°C, -40~+85°C, or specify	
Storage Temperature Range		-55~+125°C	

Dimensions



Recommended Land Pattern [mm]

