

TSNV/ TSN Series* TCXO , TCVCXO

Metal Package, Full Size DIP14 ,Sine Wave Output

ELECTRICAL SPECIFICATIONS	PARAMETER	TSNV / TSN
	Frequency	1.000 MHz to 200.000 MHz
	Output Signal	Sine Wave
	Level	>2dBm
	Load	Nominal 50Ω
	Harmonics	< -40dBc
	Spurious	< -80dBc
	Frequency Stability	See Frequency Stability Table
	Aging	±1 ppm / Year Max.
	Supply Voltage	See Supply Voltage Table, tolerance ±5%
	Input Current	<40MHz ,20mA Max. >40MHz ,35 mA Max.**
	Control Voltage (TSNV)	1.65 Vdc±1.5Vdc, ±5ppm Min. for Vcc=3.3 Vdc 2.5 Vdc±2.0 Vdc, ±5 ppm Min. for Vcc=5.0 Vdc
	Slope	Positive
	Temperature	
	Operating	See Operating Temperature Table
	Storage	-55°C to +125°C
	Phase Noise	-120dBc/Hz@100Hz ; -140dBc/@1KHz ; -148 dBc/@10KHz

Environmental And Mechanical	Operating Temperature Range	-45°C to +105°C
	Shock	MIL-STD-883, Method 2002, Test Condition B
	Vibration	MIL-STD-883, Method 2007, Test Condition A
	Humidity (Only for Crystal)	MIL-STD-883, Method 1014, Test Condition C

* TSN= Sine TCXO, TSNV= Sine TCVCXO

TSNV/TSN

pin connection
1: control voltage/N.C.
7: ground
8: output
#14: supply voltage

Part Number Guide		Sample Part Number: TSNV-2P5-16.0000MHZ		
(Stability is ±2.0 ppm over -40℃ to +85℃ ,16MHZ , Sine Wave Output , + 5.0Vdc Supply Voltage)				
Package and Output	Operating Temperature	Frequency Stability	Supply Voltage	Frequency
TSNV TSN	7=0℃ to +50 ℃	Q=±1.0 ppm	5=5.0 Vdc	Customer Specified
	1=0℃ to +70 ℃	P=±2.0 ppm	3=3.3 Vdc	
	3=-20 ℃ to +70 ℃	O=±2.5 ppm		
	2=-40 ℃ to +85 ℃	R=±3.0 ppm		
	5=-45 ℃ to +105 ℃	J =±5.0 ppm		

** Frequency, supply, and load related parameters. Specifications subject to change without notice