



SMD Temperature Compensated Crystal Oscillator

40 MHz TCXO 1490

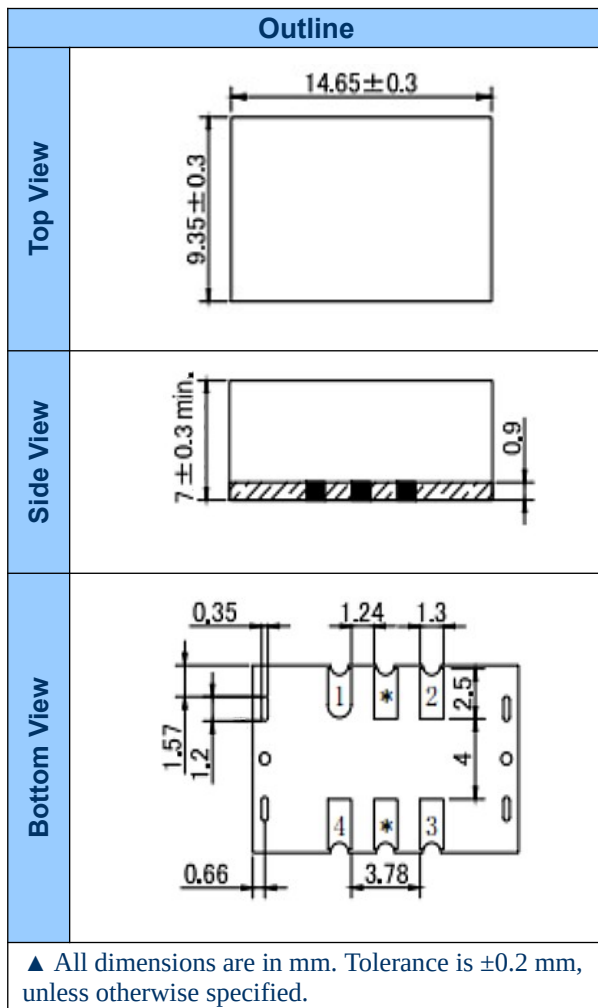
Features

- SMD Package
- Ultra Stable
- Low Phase Noise

Specifications	Option Codes
Nominal Frequency:	80.000 MHz
Output Waveform:	HCMOS Compatible H
Output Load:	15 pF \pm 5%
Output Levels:	V _{low} : 0.4 V (max.) V _{High} : 2.4 V (min.)
Duty Cycle:	45% to 55%
Rise/ Fall Time:	6 ns (max.)
Frequency Tolerance @ 25°C:	\pm 1 ppm (max.)
Operating Temperature Range (OTR):	-40°C to +85°C I
Temperature Stability:	\pm 0.28 ppm (max.) X4
Supply Voltage, V _{dd} :	+3.3 V \pm 5% 3
Current Consumption:	45 mA (max.)
Supply Voltage Stability:	\pm 0.1 ppm (max.)
Load Stability:	\pm 0.2 ppm (max.)
Frequency Adjustment Option:	None (Fixed Frequency) N
RMS Jitter:	40 fs (max.) [12 KHz ~ 5 MHz]
Frequency Tuning Slope:	Positive
Linearity:	10% (max.)
Aging @ 25°C:	\pm 1.0 ppm (max.) for first year
Storage Temperature Range:	-55°C to +105°C

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Mechanical Specifications



Typical SSB Phase Noise

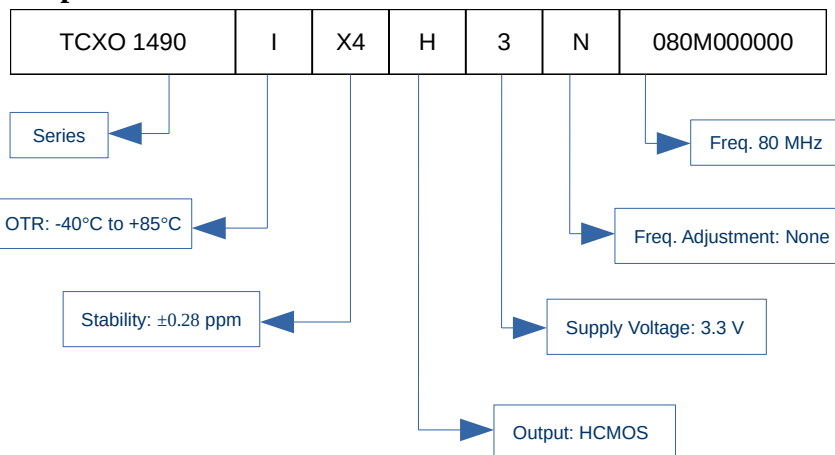
10 Hz offset	- 75 dBc/ Hz
100 Hz offset	-110 dBc/ Hz
1 KHz offset	-140 dBc/ Hz
10 KHz offset	-155 dBc/ Hz
100 KHz offset	-158 dBc/ Hz

Pad Configuration:

Pad	Description
1	No Connection
2	Ground
3	Output
4	Supply Voltage

Ordering Information

Example



Rev. Date: 21th November 2023