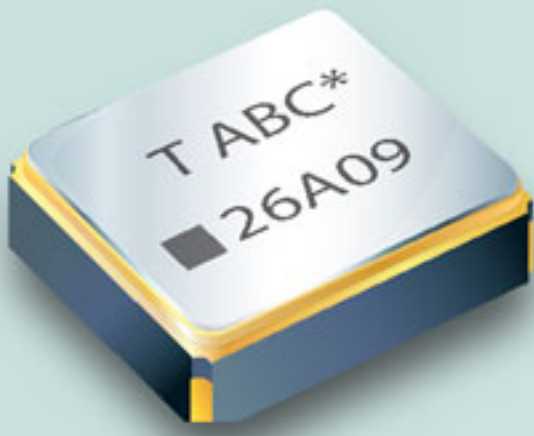


# SMD TCXO

## 2.0 x 1.6 x 0.75 mm

### 7Z Series



#### Features

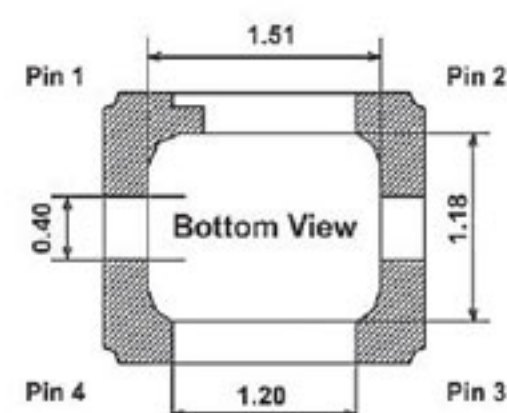
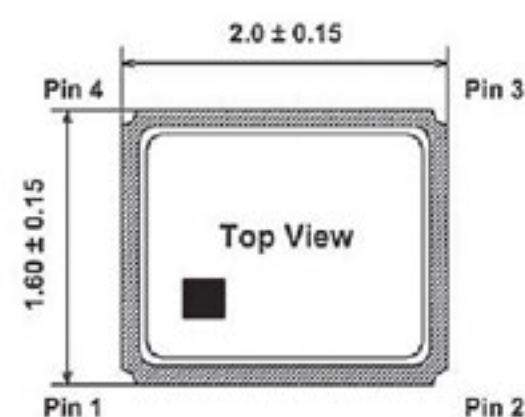
- Temperature Stability:  $\pm 0.5$  ppm ~  $\pm 2.0$  ppm.
- Operating Temperature Range:  $-30$  °C ~  $85$  °C.
- Supply Voltage:  $1.8$  V ~  $3.3$  V.
- Voltage Control Function Available.
- World's Thinnest Package.
- Frequencies: 26 MHz, 33.6 MHz, 38.4 MHz, 40 MHz, 52 MHz.
- Applications: GPS, WiMAX, Cellular and Wireless Communications.
- RoHS Compliant / Pb Free.

#### Electrical Specifications

Item / Type		7Z
Output Type		Clipped Sinewave
Output Load		$10K\Omega // 10$ pF
Oscillation Mode		Fundamental
Supply Voltage		$1.8 \sim 3.3$ V
Frequency Range		$26 \sim 52$ MHz
Clipped Sinewave Output Voltage		$0.8$ Vp-p typical
Frequency Stability	Vs. Temperature ( $-30 \sim +85$ °C)	$\pm 0.5 / \pm 2.0$ ppm
	Vs. Load ( Load varies $\pm 10$ % )	$\pm 0.2$ ppm Max.
	Vs. Supply Voltage ( $V_{CC} = \text{Typical} \pm 0.1$ V )	$\pm 0.2$ ppm Max.
Frequency Tolerance	at $25$ °C after 2 Reflows with Typical Applied to Auto Frequency Control Pin	$\pm 2.5$ ppm Max.
Slope of Frequency Drift		$\pm 0.1$ ppm / °C Typical ; $\pm 0.5$ ppm / °C Max.
Storage Temperature Range		$-40 \sim +85$ °C
Auto Frequency Control ( AFC ) Range *		$\pm 7 \sim \pm 16$ ppm ( $1.4 \pm 1V$ )
Supply Current		$2.0$ mA Max.
Start-up Time		$5$ ms Max.
Harmonics		$-5$ dBc Max.
Phase Noise at 1 kHz offset		$-130$ dBc / Hz
Aging ( at $25$ °C )		$\pm 1$ ppm / year Max.

\* AFC Range is selective and disable is acceptable.

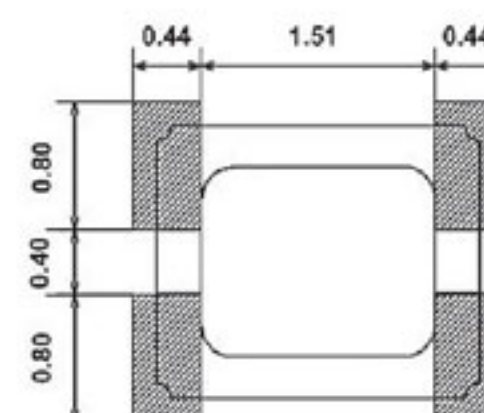
#### Dimensions



#### Pin Connection

Name	Connection
Pin 1	AFC or GND
Pin 2	GND
Pin 3	OUTPUT
Pin 4	VCC

#### Recommended Land Pattern



Units: mm