

SMD TCXO 2.0 x 1.6 x 0.75 mm 7Z Series

Oscillators
Series

Features

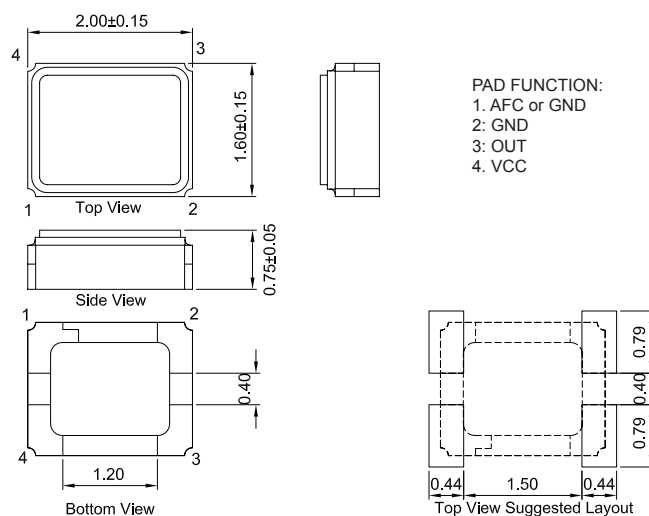
- Temperature Stability: $\pm 0.5 \text{ ppm} \sim \pm 2.0 \text{ ppm}$
- Operating Temperature Range: $-30^\circ\text{C} \sim 85^\circ\text{C}$
- Supply Voltage: $1.8 \text{ V} \sim 3.3 \text{ V}$
- Voltage Control Function Available
- World's Thinnest Package
- Frequencies: 26 MHz, 33.6 MHz, 38.4 MHz,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



Electrical Specifications

Item / Type		7Z
Output Type		Clipped Sinewave
Output Load		$10\text{K} \Omega // 10 \text{ pF}$
Oscillation Mode		Fundamental
Supply Voltage		$1.8 \sim 3.3 \text{ V}$
Frequency Range		$26 \sim 52 \text{ MHz}$
Clipped Sinewave Output Voltage		$0.8 \text{ V}_{\text{p-p}}$ typical
Frequency Stability	Vs. Temperature ($-30 \sim +85^\circ\text{C}$)	$\pm 0.5 / \pm 2.0 \text{ ppm}$
	Vs. Load (Load varies $\pm 10\%$)	$\pm 0.2 \text{ ppm Max.}$
	Vs. Supply Voltage ($V_{\text{CC}} = \text{Typical} \pm 0.1 \text{ V}$)	$\pm 0.2 \text{ ppm Max.}$
Frequency Tolerance	at 25°C after 2 Reflows with Typical Applied to Auto Frequency Control Pin	$\pm 2.5 \text{ ppm Max.}$
Slope of Frequency Drift		$\pm 0.1 \text{ ppm} / ^\circ\text{C}$ Typical ; $\pm 0.5 \text{ ppm} / ^\circ\text{C}$ Max.
Storage Temperature Range		$-40 \sim +85^\circ\text{C}$
Auto Frequency Control (AFC) Range (Center 0.9 V)		$\pm 7 \sim \pm 16 \text{ ppm} / \text{V}$
Supply Current		2.0 mA Max.
Start-up Time		5 ms Max.
Harmonics		-5 dBc Max.
Phase Noise at 1 KHz offset		$-130 \text{ dBc} / \text{Hz}$
Aging (at 25°C)		$\pm 1 \text{ ppm} / \text{year Max.}$

Dimensions



Units: mm

Remark : Specification subject to change without prior notice. Please confirm with our sales.

Mouser Electronics

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