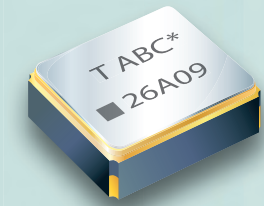


SMD TCXO

1.6 x 1.2 x 0.6 mm

8P Series



Features

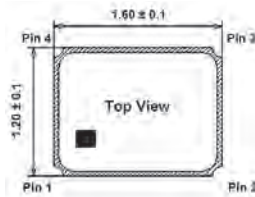
- Temperature Stability: $\pm 0.5 \text{ ppm} \sim \pm 2.0 \text{ ppm}$.
- Operating Temperature Range: $-30 \text{ }^\circ\text{C} \sim 85 \text{ }^\circ\text{C}$.
- Supply Voltage: $1.8 \text{ V} \sim 3.3 \text{ V}$.
- Voltage Control Function Available.
- World's Thinnest Package.
- Frequencies: 26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

Electrical Specifications

Item / Type		8P
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 ($-30 \sim +85 \text{ }^\circ\text{C}$)	$\pm 0.5 / \pm 2.0 \text{ ppm}$
	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 $25 \text{ }^\circ\text{C}$ 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		$-40 \sim +85 \text{ }^\circ\text{C}$
Auto Frequency Control (AFC) Range *		$\pm 7 \sim \pm 16 \text{ ppm}$ ($1.4 \pm 1\text{V}$)
Supply Current		2.0 mA Max.
Start-up Time		5 ms Max.
Harmonics		-5 dBc Max.
Phase Noise at 1 kHz offset		-130 dBc / Hz
Aging (at $25 \text{ }^\circ\text{C}$)		$\pm 1 \text{ ppm / year Max.}$

* AFC Range is selective and disable is acceptable.

Dimensions

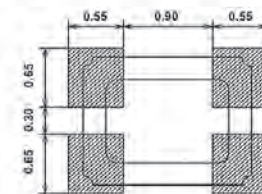
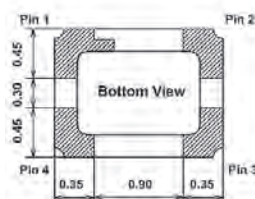


Pin Connection

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



Recommended Land Pattern



Units: mm