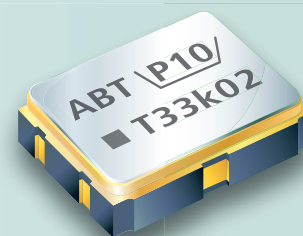


SMD TCXO 3.2 X 2.5 X 1.0 mm 7Q Series

Oscillators
Series

Features

- Temperature Stability: ± 0.5 ppm $\sim \pm 2.0$ ppm.
- Operating Temperature Range: $-30^{\circ}\text{C} \sim 85^{\circ}\text{C}$.
- Supply Voltage: 1.8 V $\sim$ 3.3 V.
- Voltage Control Function Available.
- Frequencies: 16.367667 MHz, 16.368 MHz, 16.369 MHz, 16.8 MHz, 19.2 MHz, 20 MHz, 26 MHz, 33.6 MHz, 38.4 MHz, 40 MHz.
- Applications: GPS, WiMAX, Cellular and Wireless Communications.
- RoHS Compliant / Pb Free.

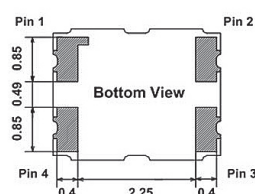
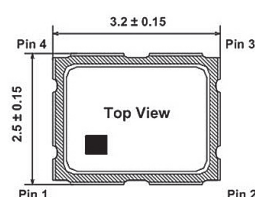


Electrical Specifications

Item / Type		7Q
Output Type		Clipped Sinewave
Output Load		10K Ω // 10 pF
Oscillation Mode		Fundamental
Supply Voltage		1.8 $\sim$ 3.3 V
Frequency Range		13 $\sim$ 52 MHz
Clipped Sinewave Output Voltage		0.8 Vp-p Min.
Frequency Stability	Vs. Temperature ($-30 \sim +85^{\circ}\text{C}$)	$\pm 0.5 / \pm 2.0$ ppm
	Vs. Load (Load varies $\pm 10\%$)	± 0.2 ppm Max.
	Vs. Supply Voltage (Vcc = Typical ± 0.1 V)	± 0.2 ppm Max.
Frequency Tolerance	at 25°C after 2 Reflows with Typical Applied to Auto Frequency Control Pin	± 2.5 ppm Max.
Slope of Frequency Drift		± 0.1 ppm / $^{\circ}\text{C}$ Typical ; ± 0.5 ppm / $^{\circ}\text{C}$ Max.
Storage Temperature Range		$-40 \sim +85^{\circ}\text{C}$
Auto Frequency Control (AFC) Range *		$\pm 7 \sim \pm 16$ ppm (1.4+/- 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)		± 1 ppm / year Max.

* AFC Range is selective and disable is acceptable.

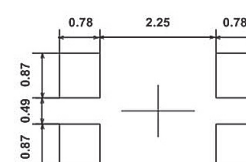
Dimensions



Pin Connection

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

Recommended Land Pattern



Units: mm

Remark : Specification subject to change without prior notice. Please confirm with our sales. <http://www.txccorp.com>