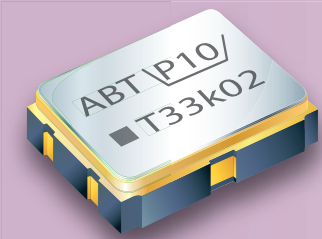


SMD Temperature Compensated Crystal Oscillators

3.2 x 2.5 x 1.0 mm AQ Series



Features

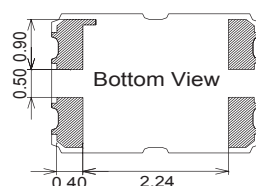
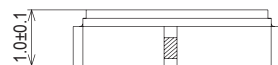
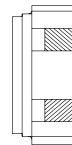
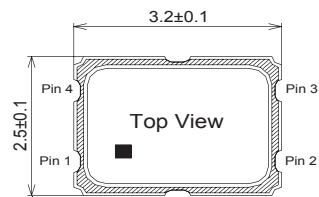
- Temperature Stability: $\pm 0.5 \text{ ppm} \sim \pm 2.5 \text{ ppm}$.
- Operating Temperature Range: $-40 \text{ }^\circ\text{C} \sim 105 \text{ }^\circ\text{C}$.
- Supply Voltage: 1.68 V ~ 3.63 V.
- Voltage Control Function Available.
- Frequencies: 6 MHz ~ 52 MHz.
- Applications: GPS, WiMAX, LTE and Wifi Communications.
- RoHS Compliant/Pb Free.
- AEC-Q200/AEC-Q100 Compliant.

Electrical Specifications

Item / Type		AQ
Output Type		Clipped Sinewave
Output Load		10 K Ω // 10 pF and 5 K Ω // 40 pF
Oscillation Mode		Fundamental
Supply Voltage		1.68 ~ 3.63 V
Frequency Range		6 ~ 52 MHz
Clipped Sinewave Output Voltage		0.8 V _{p-p} typical
Frequency Stability	Vs. Temperature (- 40 ~ + 85 $^\circ\text{C}$)	$\pm 0.5 \sim \pm 2.5 \text{ ppm}$
	Vs. Temperature (- 40 ~ + 105 $^\circ\text{C}$)	
	Vs. Load (Load varies $\pm 10 \%$)	$\pm 0.2 \text{ ppm Max.}$
	Vs. Supply Voltage (V _{cc} = Typical $\pm 0.1 \text{ V}$)	$\pm 0.2 \text{ ppm Max.}$
Frequency Tolerance	at 25 $^\circ\text{C}$ 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		- 55 ~ + 125 $^\circ\text{C}$
Auto Frequency Control (AFC) Range *		$\pm 5 \text{ ppm} \sim \pm 16 \text{ ppm}$
Supply Current		2.5 mA Max.
Start-up Time		3 ms Max.
Harmonics		- 5 dBc Max.
Phase Noise at 1 kHz offset		- 130 dBc / Hz
Aging (at 25 $^\circ\text{C}$)		$\pm 1 \text{ ppm / year Max.}$

* AFC Range is selective and disable is acceptable.

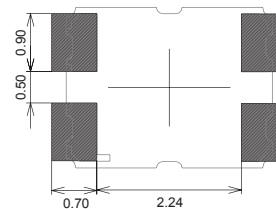
Dimensions



Pic Connection

Name	Connection
Pin 1	AFC or GND
Pin 2G	ND
Pin 3O	UTPUT
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>

单击下面可查看定价，库存，交付和生命周期等信息

[>>TXC\(台湾晶技\)](#)