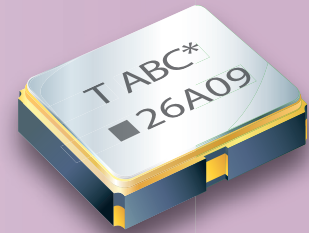


# SMD Temperature Compensated Crystal Oscillators

## 2.5 x 2.0 x 0.8 mm AL Series

### Features

- Temperature Stability:  $\pm 0.5$  ppm ~  $\pm 2.5$  ppm.
- Operating Temperature Range:  $-40$  °C ~  $105$  °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.

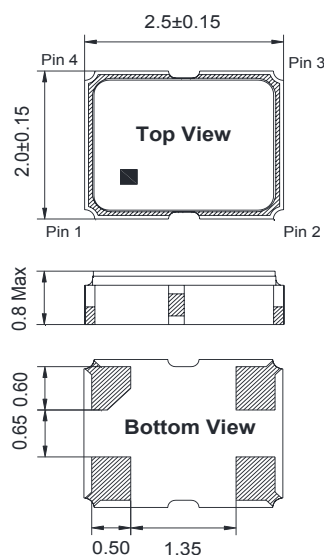


### Electrical Specifications

Item / Type		AL
Output Type		Clipped Sinewave
Output Load		10 K $\Omega$ // 10 pF and 5 K $\Omega$ // 40 pF
Oscillation Mode		Fundamental
Supply Voltage		1.68 ~ 3.63 V
Frequency Range		6 ~ 52 MHz
Clipped Sinewave Output Voltage		0.8 V <sub>p-p</sub> typical
Frequency Stability	Vs. Temperature ( - 40 ~ + 85 °C )	$\pm 0.5 / \pm 2.5$ ppm
	Vs. Temperature ( - 40 ~ + 105 °C )	
	Vs. Load ( Load varies $\pm 10$ % )	$\pm 0.2$ ppm Max.
	Vs. Supply Voltage ( V <sub>cc</sub> = 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		- 55 ~ + 125 °C
Auto Frequency Control ( AFC ) Range *		$\pm 5$ ppm ~ $\pm 16$ 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 °C )		$\pm 1$ ppm / year Max.

\* AFC Range is selective and disable is acceptable.

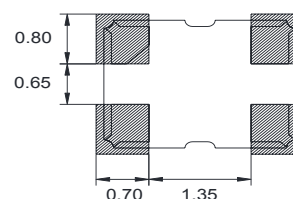
### Dimensions



#### Pin Connection

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

#### Recommended Land Pattern



Units: mm

单击下面可查看定价，库存，交付和生命周期等信息

[>>TXC\(台湾晶技\)](#)