



**THE DATASHEET OF  
7Q26002005**

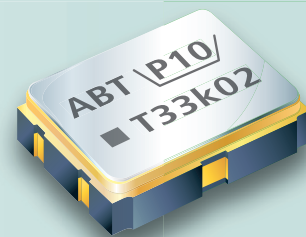


# SMD TCXO 3.2 X 2.5 X 1.0 mm 7Q Series

Oscillators  
 Series

## Features

- Temperature Stability:  $\pm 0.5$  ppm ~  $\pm 2.0$  ppm.
- Operating Temperature Range: - 30 °C ~ 85 °C.
- Supply Voltage: 1.8 V ~ 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.

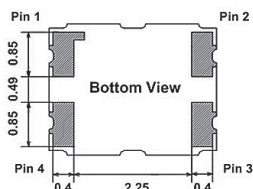
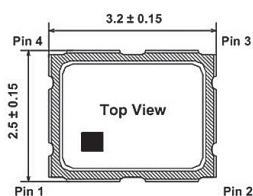


## Electrical Specifications

Item / Type		7Q
Output Type		Clipped Sinewave
Output Load		10K $\Omega$ // 10 pF
Oscillation Mode		Fundamental
Supply Voltage		1.8 ~ 3.3 V
Frequency Range		13 ~ 52 MHz
Clipped Sinewave Output Voltage		0.8 Vp-p Min.
Frequency Stability	Vs. Temperature ( - 30 ~ + 85 °C )	$\pm 0.5 / \pm 2.0$ ppm
	Vs. Load ( Load varies $\pm 10$ % )	$\pm 0.2$ ppm Max.
	Vs. Supply Voltage ( Vcc = 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		- 40 ~ + 85 °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 )		$\pm 1$ ppm / year Max.

\* AFC Range is selective and disable is acceptable.

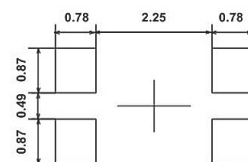
## Dimensions



### Pin Connection

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

### Recommended Land Pattern



Units: mm

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

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