ULTRA-PERFORMANCE TCXO SERIES

ABRACON
Innovation For Tomorrow's Designs®

SMD Precision Timing Solutions for 5G Applications

AST3TDA and AST3TDA53

Learn More

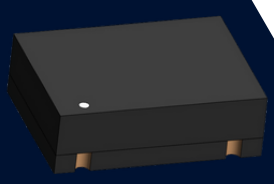
Abracon's new AST3TDA and AST3TDA53 temperature-controlled oscillator (TCXO) series provide the ideal tradeoff between precision timing performance and small size to meet emerging 5G design requirements. The VC/TCXO devices are ideal for 5G infrastructure applications such as macro base stations (AAU, DU/CU), small cells (Micro, Pico, Femto), and Wifi-6/6E.

The cloudification and densification of networks continues to propel demand for 5G telecommunication technology, increasing the performance and board space pressures placed on applications from smart devices and edge computing to electric vehicles and automotive ADAS.

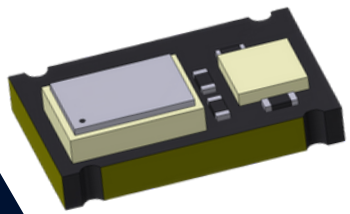
The ultra-performance TCXOs deliver high precision holdover accuracy and stability over temperature performances in the most popular industry package sizes. For example, the 7.0 x 5.0 mm AST3TDA series can support a tight ±50ppb frequency stability up to a high 105°C operating temperature.

AST3TDA Series

- 7.0 x 5.0 x 2.2 mm
- ±50ppb, ±100ppb and ±280ppb Stability Options
- Standard available frequencies: 10, 12.8, 16.384,
- 18.432, 19.2, 19.44, 20, 30.72, 38.88, 40, 50MHz



AST3TDA53 Series



- 5.0 x 3.2 x 0.7 mm
- ±280ppb Stability
- Standard available frequencies: 10, 12.8, 16.384,
- 19.2, 19.44, 20, 30.72, 38.88, 40, 50MHz

Features

Tight Frequency Stability Over Temperature
Wide -40°C to +105°C OTR
Frequency Range: 10 MHz – 50 MHz
Available Outputs: CMOS or Clipped Sine Wave
Voltage-Control (VCTCXO) Option Available

Applications

Stratum 3
Network Routers and Switches
COTS Military Radios & Communication Hardware
Wireless Communication
GPS Tracking with Hold-Over Accuracy
Test & Measurement Equipment
Autonomous Technologies