Airborne and Cold Temperature Terrestrial Applications Get Timing Boost from SiTime

Endura™ MEMS Super-TCXO® Delivers Industry-Leading Performance and Stability in Extended Cold Temperatures

SANTA CLARA, Calif.--(BUSINESS WIRE)--Apr. 28, 2021-- SiTime Corporation (NASDAQ: SITM), a market leader in MEMS timing, today announced the availability of a significant new feature of the SiTime Endura SiT5146 Super-TCXO. Previously, these devices operated down to -40°C, but now support -55°C. With this new capability, the SiT5146 delivers best-in-class stability over -55ºC to +105ºC, benefiting airborne applications such as low earth-orbiting (LEO) satellites, commercial aircraft, satellite communication systems, and rocket delivery systems as well as terrestrial systems residing in extremely cold environments.



“Aerospace and defense applications depend on precise and stable timing in the presence of extreme temperatures,” said Piyush Sevalia, executive vice president of marketing at SiTime. “While the challenge is significant, solving our customers’ difficult timing problems is what we do at SiTime. Through our rapid-release derivatives program, we extended the operating temperature range of the SiT5146 to -55°C while maintaining ±1 to ±2.5 ppm stability and excellent performance in the presence of shock and vibration. With these features, the Endura SiT5146 is an obvious choice for airborne and terrestrial applications that operate in extremely cold environments.“

The SiTime Endura SiT5146 is a ruggedized ±1 to ±2.5 ppm MEMS Super-TCXO that is available in two flavors of acceleration sensitivities: 0.009 ppb/g and 0.1 ppb/g. It can withstand high levels of shock and vibration while continuing to deliver outstanding performance. Frequencies are programmable with 6 decimals of accuracy from 1 MHz to 60 MHz. Offered in a 5.0 mm x 3.2 mm package, the SiT5146 can be factory programmed for any combination of frequency, stability, voltage, and pull range, enabling shorter lead times. The device is available now in production quantities.

Learn more about the SiTime Endura SiT5146 Super-TCXO

Learn more about MEMS Timing Solutions for Aerospace and Defense

Download SiTime Endura SiT5146 photo

About SiTime

SiTime Corporation is a market leader in silicon MEMS timing. Our programmable solutions offer a rich feature set that enables customers to differentiate their products with higher performance, smaller size, lower power, and better reliability. With over 2 billion devices shipped, SiTime is changing the timing industry. For more information, visit www.sitime.com.

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