SiTime introduces industry?s first MEMS VCTCXO with ±0.5 PPM stability

Medical Design Technology

SiTime Corporation, an analog semiconductor company, today introduced the industry's first ultra-stable, MEMS VCTCXO (Voltage Controlled, Temperature Compensated Oscillator) products that are targeted at Telecom, Networking and Wireless applications like SONET and Synchronous Ethernet based equipment, cellular basestations and repeaters, GPS and instrumentation. This new, programmable, Encore-based VCTCXO family consists of four devices, SiT5001, SiT5002, SiT5003 and SiT5004, all of which support frequencies up to 220 MHz, industry-leading stability as low as ±0.5 PPM and 500 femtoseconds of integrated RMS phase jitter (12 kHz to 20 MHz). The SiT500x family is available in industry-standard footprints, enabling 100% drop-in replacement of quartz TCXOs and VCTCXOs with no design changes. As with other SiTime products, the SiT500x family offers unprecedented flexibility with no additional cost or lead time.

"SiTime has used its Silicon MEMS technology and programmable analog expertise to accelerate innovation in the timing components industry," said **Piyush Sevalia**, vice president of marketing at SiTime. *"Unlike the quartz industry, SiTime offers web-enabled software development tools that allow engineers to customize a SiTime device exactly for their application, request samples, and receive them within a week. This flexibility, along with unique features, 3 – 5 week lead times and 10 times better reliability than quartz, is accelerating the electronics industry's move to MEMS-based timing."*

The SiT500x family consists of the following devices:

SOURCE [1]

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http://www.ecnmag.com/news/2011/07/sitime-introduces-industrys-first-mems-vctcxo-%C2%B105-ppm-stability

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[1] http://www.i-micronews.com/lectureArticle.asp?id=7227
[2] http://www.MDTmag.com/News/Feeds/2011/07/products-electronic-components-sitime-introduces-industry-s-first-mems-vctcxo-wit/