

Synthesizers

MTI-Milliren Technologies Inc extends it's quartz oscillator performance advantages into high performance synthesizers for military, space and ground applications. Highly integrated fixed or variable frequency sources are available with a wide variety of options. Assemblies may contain tactical radiation hardness performance, shock and vibration isolation systems, thermal management techniques, and multiple output frequencies. See the features list offered below. For more information or to request a quote send an email to sales@mti-milliren.com.

Features offered:

- Phase Locked Loop
- Direct Digital Synthesis
- Multiple Output Frequencies
- Phase (Time) Synchronous Outputs
- Shock Vibration Resistant and Isolated Systems
- Low g Sensitivity
- BIT Monitors
- Output Frequencies 1KHz to 4GHz
- MilliHertz to MegaHertz step Resolution
- Internal and/or External Frequency Reference
- Low Phase Noise Floor (-180dBc/Hz at 100MHz, 10KHz offset)
- I2C, RS232, RS422 Communications Interface
- AC or DC Power Sources
- Hermetic Packaging



Environmental

Shock: MIL-STD-202 Method 213 Test Condition I (100 g, 6 microseconds, Sawtooth).

Vibration: MIL-STD-202, Method 204, Test Condition G, Sine, (0.06 inch double amplitude from 10-100 Hz, 30G from 100-2000 Hz). MIL-STD-202 Method 214, Random, 10 – 2000Hz up to 46g rms Any Axis.

Salt Spray: MIL-STD-202, Method 101, Test Condition B.

Hermetic Seal: MIL-STD-202 Method 112, Test Condition-D

Altitude: MIL-STD-202 Test Condition C (to 80,000 ft)

Radiation Hardness to Tactical Levels (Neutron, Gamma, XRay, Electron, Prompt and Total Dose), Testing available per requirements.

Space Environments