



Rockleigh, New Jersey – Elcom Technologies, Inc. has released a new Ruggedized Synthesizer (RS) Series. The single-loop PLL Synthesizers employ Elcom's proprietary design architecture to provide low phase noise and fast switching speed, <50 microseconds, in a compact ruggedized configuration. These synthesizers maintain specified performance under conditions of vibration exceeding 6 G-RMS. Operating base plate temperature range is -55°C to +85°C.



The PLL synthesizer module includes GaAs IC's assembled with chip-and-wire construction. For high reliability, the module is hermetically sealed with laser welded RF and DC connectors, and with laser welded top and bottom covers.

The RS Series PLL Synthesizers are ideal for the LO in spread-spectrum military airborne and ground based communications systems. They have application in many types of radar and ECM systems and in other types of communications systems.

Frequency Range

1 to 23 GHz, In Bands Up To 25%
1, 5, 10 MHz Steps

Features

- Fast Switching < 50 usec for Phase Settling to +/-1 degree
- Wide Temperature Range -54°C to +85°C
- Stable Operation To Beyond 6 G RMS Vibration
- Ultra Low Phase Noise, -110 dBc 10 KHz Offset, for 10 GHz Output Frequency
- Hermetically Sealed
- High Reliability
- Airborne Up 60,000 Feet

For additional information about Elcom Technologies, please contact Ron G. Piercey V.P. Sales & Marketing at 201-767-8030; sales@elcom-tech.com