



# FREQUENCY ELECTRONICS, INC.

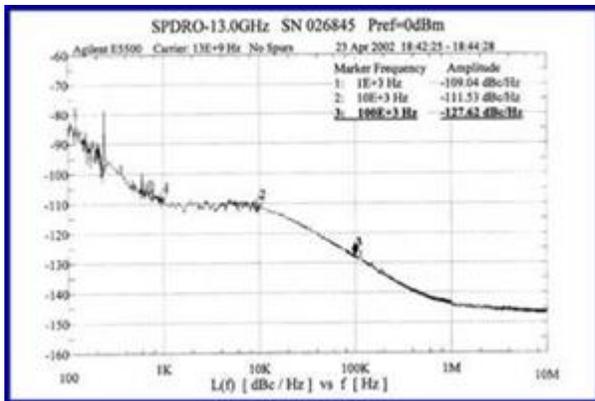
## Frequency Electronics, Inc., subsidiary FEI-Elcom Tech, Inc., (Elcom), enhances the SPDR0 line with improved phase noise

December 18, 2019

FMITCHEL FIELD, N.Y., Dec. 18, 2019 (GLOBE NEWSWIRE) -- frequency Electronics, Inc. ("FEI" or the "Company") (NASDAQ-FEIM) announces FEI-Elcom Tech, Inc., (Elcom), a subsidiary of Frequency Electronics, Inc., enhances the SPDR0 line with improved phase noise.



Breaking Tradition - Silent SPDR0s



13 GHz Performance

### Breaking Tradition - Silent SPDR0s

A photo is available at <https://www.globenewswire.com/NewsRoom/AttachmentNg/1d3155f1-6bda-4196-aa52-e8c41dc35649>

**Frequency generation, radar, and exciter applications depend on the ruggedized SPDR0 series.**

**MIL-STD-202 environmental test conditions for shock and vibration.**

Size: 2.25" x 2.25" x 0.65"

Elcom's SPDR0's are pushing barriers in commercial and military systems. Utilizing the latest technologies, the miniature SPDR0 sources employ a proprietary technique to phase lock a microwave DRO to a 10 MHz crystal reference. The technique utilizes a single loop for reliable phase-lock performance. By using one loop, size, power consumption and cost are minimized.

The SPDR0s are deployed in critical EW and ELINT applications. The oscillators are available in multiple bands and ruggedized packages along with extended temperature ranges (-45 to +85 deg C). The SPDR0s are deployed in new programs and can be used to replace older obsolete systems in legacy programs to improve performance.

The units offer ultra-low phase noise a built in OCXO option, 15 dbm output power and -80 dB spurious.

### 13 GHz Performance

A photo is available at <https://www.globenewswire.com/NewsRoom/AttachmentNg/9183c24c-2c7e-45c0-9d23-16ccec64194f>

1 KHz offset	-109 dB	10 KHz offset	-111 dB
100 KHz offset	-127 dB		

1 MHz offset -143 dB  
10 MHz offset -163 dB **Typical Frequencies:** SPDRO-3.600  
SPDRO-6.950  
SPDRO-10.300  
SPDRO-14.000  
SPDRO-19.500  
SPDRO-25.500  
SPDRO-31.000

**About FEI-Elcom Tech, Inc.**

Elcom designs and delivers Advanced Integrated Multifunction Microwave Assemblies, operating at frequencies up to 67 GHz (HF, 6 GHz, 0.5-18-26.5-40-67 GHz). We provide fast switching speed, low phase noise (jitter), and ultra-wideband solutions for Electronic Warfare, Radar, Electromagnetic Environment Simulator, SIGINT, and emerging 5G wireless applications. Our design approach is based on a combination of MW circuit design and FPGA based proprietary DSP. Telcom products include T/R modules, Up/Down Converters, Receivers, Synthesized Signal Generators, Block Converters, Switchable Filter Banks, and Phase Locked DROs.

We offer COTS and custom products in VPX and VME open system based on the DOD Open System Modular System Approach (OSA). Also, we offer stand-alone ruggedized and hermetically sealed modules. **Contact:** [Sales@fei-elcomtech.com](mailto:Sales@fei-elcomtech.com)

**Safe Harbor Statement under the Private Securities Litigation Reform Act of 1995:**

The Statements in this press release regarding the future constitute "forward-looking" statements pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements inherently involve risks and uncertainties that could cause actual results to differ materially from the forward-looking statements. Factors that would cause or contribute to such differences include, but are not limited to, inability to integrate operations and personnel, actions by significant customers or competitors, general domestic and international economic conditions, consumer spending trends, reliance on key customers, continued acceptance of the Company's products in the marketplace, competitive factors, new products and technological changes, product prices and raw material costs, dependence upon third-party vendors, competitive developments, changes in manufacturing and transportation costs, the availability of capital, and other risks detailed in the Company's periodic report filings with the Securities and Exchange Commission. By making these forward-looking statements, the Company undertakes no obligation to update these statements for revisions or changes after the date of this release.

Contact information: Stanton Sloane, President, Chief Executive Officer, Steven Bernstein, Chief Financial Officer

Martin Bloch, Executive Chairman of the Board

TELEPHONE: (516) 794-4500

WEBSITE: [www.frequencyelectronics.com](http://www.frequencyelectronics.com)

Source: Frequency Electronics, Inc.