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Press Release

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FOR IMMEDIATE RELEASE:

ELVA-1's CIDO-series cavity-stabilized millimeter wave oscillators produce fine-spectrum resolution and low phase noise with high output power and frequency stability. The CIDO solid-state, IMPATT-based design combines the extended frequency range and output power of IMPATT technology with the stability and phase noise characteristics associated with cavity-stabilized Gunn sources. CIDO's are available in waveguide bands from 26 GHz to 150 GHz.

The CIDO configuration consists of a waveguide cavity IMPATT oscillator coupled to a high-Q, high order mode cylindrical Invar cavity. A low-pass EMI filter and current stabilizer are included for trouble-free operation, and an isolator is integrated into the output.

Standard CIDO models are supplied mounted on a finned heatsink, and can maintain their operating frequency within a few megahertz over their operating temperature range of -50 to +80 degrees C with no temperature controller or heater. An optional built-in temperature controlled heater can maintain the CIDO's internal temperature within a narrow specified range, resulting in a very precise frequency output. Custom configurations and specifications can be negotiated.

Maximum CIDO mid-band output power ranges from 150 mW at Ka band to 40 mW at D band, with typical frequency stability (per degree C) of 10^{-5} to 5×10^{-6} , and amplitude stability (dB per degree C) of 0.01 to 0.02. Several performance-enhancement and control options are offered. Applications for CIDO's include stable, fixed-frequency LO, communications systems, instruments and test equipment, space-based or HI-REL systems.

For more information, please contact GILLAND ELECTRONICS INC., P.O. Box 320005, Los Gatos, CA 95032, USA. Phone: 800-480-3391, Fax: 408-358-5804. Meet us in Phoenix at ELVA-1 Booth No. 2808, IEEE MTT-S 2001 Exhibition, May 22-24, 2001.

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