

Teledyne e2v HiRel Expands RF Line With New 25 GHz Frequency Doubler

*Company continues aggressive push into high reliability RF solutions
for signal chain applications in demanding space environments*

MILPITAS, CA – September 22, 2020 – [Teledyne e2v HiRel](#), part of the [Teledyne Defense Electronics Group](#), today announced the latest addition to its rapidly expanding line of RF solutions, a new RF MMIC Frequency Doubler.

Launching Teledyne e2v HiRel's new Frequency Multiplier product line, this active Doubler, [TDFM001000](#), is designed for high reliability signal chain applications in Space. It is particularly well-suited specifically for satellite transponders, transmit/receive modules, microwave-based communications, millimeter-wave point-to-point radio, and related processes.

TDFM001000 is a 7.5-25.0 / 15.0-50.0 GHz single ended input (no external balun required) GaAs MMIC Doubler with a +15.0 dBm output drive. It is an excellent LO Doubler that can be used to drive fundamental mixer devices. It uses a GaAs PHEMT device model technology and is based upon electron beam lithography to ensure high repeatability and uniformity.

“This is the first Frequency Multiplier released by Teledyne e2v HiRel Electronics and is the latest addition to our rapidly growing portfolio of high reliability RF solutions for aerospace and defense,” said Mont Taylor, VP of Business Development for Teledyne e2v HiRel Electronics. “We will be introducing several new standard RF building block solutions in the months ahead to supplement our other lines including amplifiers, LNAs, PAs, DVGAs, DSAs, Limiters, Mixers, Prescalers, PLLs, Switches, and more.”

Other key features include:

- Single Ended Input Doubler with Distributed Buffer Amplifier
- 100% On-Wafer RF, dc and Output Power Testing
- 100% Visual Inspection to MIL-STD-883 Method 2010
- RoHS Compliant
- 260°C Reflow Compatible

Applications:

- Excellent Broadband Mixer Driver
- Excellent LO Driver for Receivers

The TDFM001000 is available to order now, with shipments beginning in October..

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ABOUT TELEDYNE E2V HIREL

Teledyne e2v innovations lead developments in space, transportation, defense, and industrial markets. Teledyne e2v's unique approach involves listening to the market and to the application challenges of customers and partnering with our customers to provide innovative standard, semi-custom or fully custom solutions, bringing increased value to their systems. www.tdehirel.com

ABOUT TELEDYNE DEFENSE ELECTRONICS

Serving Defense, Space and Commercial sectors worldwide, Teledyne Defense Electronics offers a comprehensive portfolio of highly engineered solutions that meet your most demanding requirements in the harshest environments. Manufacturing both custom and off-the-shelf product offerings, our diverse product lines meet emerging needs for key applications for avionics, energetics, electronic warfare, missiles, radar, satcom, space, and test and measurement . www.teledynedefelec.com. TDE is a business unit of Teledyne Technologies, Inc., a leading provider of sophisticated instrumentation, digital imaging products and software, aerospace and defense electronics, and engineered systems. www.teledyne.com.

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