

Teledyne Scientific & Imaging Announces 50GHz Family of Devices

THOUSAND OAKS, California

Teledyne Scientific & Imaging, a Teledyne Technologies [NYSE: TDY] company, is announcing its new 50GHz family of devices, from Track and Holds to Clock Dividers. The devices are designed using the Teledyne Scientific's high performance InP technology.

The new Track and Holds have an RF input bandwidth of 50GHz and are designed targeting two sets of applications. The RTH110 with a maximum sampling rate of 300MHz is designed for the test and measurement applications, while the RTH130 with a maximum sampling rate of 14GHz is designed for direct down conversion for the RF and EW markets. Both can handle signals up to 1Vpp and have a gain of 0dB. They are available in organic 4x4 mm QFN package.

For clock generation applications there are two dividers, the TPS002-2 and TPS002-4. They operate up to 50GHz, with a divide by 2 and divide by 4 output respectively. Both devices have adjustable output amplitude and are available in a 4mmx4mm QFN package.

The fifth device of this family is the TAB001. A 50GHz differential amplifier that can also be used as a single ended to differential active balun. It has four gain settings: 0dB, 6dB, 14dB, and 20dB. As an active balun it offers an excellent output matching performance with 0.5dB maximum amplitude mismatch and less than 4 degrees phase mismatch. Available in 4mmx4mm QFN packages.

Evaluation boards for all devices are also available.

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Notes to Editors:

About Teledyne Scientific & Imaging

Teledyne Scientific & Imaging is part of the Teledyne Imaging Group, and it is comprised of Teledyne Scientific Company and Teledyne Imaging Sensors. As Teledyne's Central Research Laboratory, Teledyne Scientific Company transitions technologies developed with contract R&D investments from U.S. Government R&D funding agencies into various Teledyne businesses. We are a technology leader in high performance compound semiconductor devices and integrated circuits, ceramic and functional materials, efficient real-time information processing algorithms, and optical sensors and assemblies. For more information, visit teledyne-si.com

About Teledyne Imaging Group

Teledyne Imaging is a group of leading-edge technology companies aligned within the Teledyne brand. With unrivalled expertise across the electromagnetic spectrum and decades of experience, the group offers world-leading capabilities in sensing, signal generation and processing. The collective delivers innovative solutions to aerospace, defense, geospatial, machine and industrial vision, medical and life sciences, semiconductors and MEMs. For more information, visit teledyneimaging.com

