

Teledyne e2v HiRel Releases Catalog Radiation Tolerant 30 GHz SPDT RF Switch for Space Applications

New product provides the Space RF engineering and design community with an off-the-shelf high frequency RF switch for the most challenging high-reliability space applications.

MILPITAS, CA – June 21st, 2022 – [Teledyne e2v HiRel](#) announces the availability of a rad-tolerant 30 GHz, Single Pole Double Throw (SPDT) reflective RF switch, model TDSW030A2T, that is ideal for use in demanding high reliability, space and defense applications and is now available with qualified material off-the-shelf. This new RF switch, developed on 0.15 μm InGaAs pHEMT technology, will be available as die and is qualified per MIL-PRF-38534 Class K equivalency for space applications.

The TDSW030A2T leverages monolithic microwave integrated circuit (MMIC) design techniques that deliver superior performance in the Ku and Ka microwave and millimeter-wave bands. The switch delivers low insertion loss, high isolation, fast switching times, and high linearity across a wide frequency band from dc to 30 GHz and attains an input power 1 dB compression of 25 dBm (typical). Class K equivalent element evaluation is performed per wafer.

“While switching is one of the core microwave building blocks, there has been a lack of choice for designers working on high-reliability applications” said Mont Taylor, Vice President and Business Development Manager at Teledyne e2v HiRel. “Joining our successful release of a 20 GHz switch last Fall, this new product is the first 30 GHz switch qualified as TID radiation tolerant to 100 krad (Si) on the market.”

For more information on all of Teledyne e2v HiRel’s space offerings, review our portfolio of semiconductors, converters and processors, and related services [here](#) on the Teledyne Defense Electronics website.

Devices are available for ordering and shipment today, from Teledyne e2v HiRel or an [authorized distributor](#), in commercial versions and with the option of Class H equivalent screening. They are shipped from our DoD Trusted Facility in Milpitas, California.

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Teledyne HiRel’s innovations lead developments in space, transportation, defense, and industrial markets. HiRel’s unique approach involves listening to the market and application challenges of customers and partnering with them to provide innovative standard, semi-custom or fully custom solutions, bringing increased value to their systems. For more information, visit <http://www.tdehirel.com>

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