

Teledyne e2v HiRel Announces New L-band Surface Mount Switch for High Power Military Applications

Single-Pole Double-Throw Multi-Chip Module switch optimized for high reliability military communication applications. SCDs are supported, devices are tested and shipped from Teledyne's certified US production facility.

MILPITAS, CA – June 29th, 2021 – [Teledyne e2v HiRel](#) today announced availability of a new single-pole, double-throw multi-chip module (MCM) switch with world class power handling. The surface mount PIN-diode hybrid exhibits superior RF and thermal performance compared to MMIC or glass carrier-based technologies.

The small form factor (10.1 mm x 6.2 mm x 2.5 mm) offers world class power handling, low insertion loss, and superior intermodulation performance exceeding all competitive technologies. The [TDSW002040X-198](#) symmetrical switch is tailored to minimize Transmit-to-Antenna loss while maximizing Transmit-to-Receive isolation and to enable maximum flexibility as the designer can assign either port as Transmit Port and the other as the Receive Port.

The extremely low thermal resistance of the hybrid assembly permits reliably handling up to +56 dBm (400 W) CW power and up to +60 dBm (1 kW) peak RF incident power while operating at an ambient of 125 °C.

“Our military customers requested this part because their previous supplier exited the market, leaving them without a solution,” said Mont Taylor, VP of Business Development at Teledyne HiRel. “The TDSW002040 is surprisingly small given the very high power-handling it is capable of, making it perfect for modern military communications transmit/receive switching.”

Devices are available for ordering and shipment today. They are shipped from our Product Distribution Center, in Milpitas, California, and are available to US customers only.

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