INTRODUCING

NANORF 75 OHM OPTICAL HYBRID MODULE

- **High Speed**
- **High Density**

TE Connectivity's (TE) new 75 ohm NanoRF optical hybrid module offers advanced performance in many demanding aerospace and defense applications by providing high speed and density in a small form factor. This product addresses the emerging need for higher speed video processing (such as SDI), especially in new sensor systems, including alignment to SOSA (Sensor Open Systems Architecture). Next gen video capture requires a 75 ohm coax solution.

TARGET MARKETS

- Missile Defense
- UAVs
- Ground Defense
- Military Aerospace
- Military Marine
- Space

APPLICATIONS

- Radar
- Electronic Warfare
- Missile Guidance
- Tacticle Communication

KEY BENEFITS

- Higher speed video solution
- High density package with open standard
- Floating inserts on backplane side with alignment features provide reliable, stub-free mating
- Supports cabled MT and Edge Mount transceivers allowing additional modularity and options for customers
- Multiple slot profiles and connector modules being added to VITA 65.0 and 65.1 standards allow intermateability, interoperability among suppliers of
- VPX compliant hardware for a robust supply chain
- No special tooling needed for application and rework

ELECTRICAL

- Rated Max Frequency: 18 GHz
- Isolation, Cable-to-Cable:
  ≥ 100 dB from 3 to 18 GHz
  ≥ 120 dB from 30 MHz to 3 GHz
  ≥ 140 dB from 3 to 30 MHz
- Impedance: 75 Ohm
- VSWR, Mated Pair: 1.10:1 Max to 18 GHz
- Insertion Loss, Mated Pair: ≤ 0.16 sqrt f (GHz) db Maximum

MECHANICAL

- Mating Cycles: 500 MIN
- Operating Temperature: -55°C to +125°C
- Conformable Cable Diameter
- Outer Conductor: .086"
- Center Conductor: .0113"
- Pitch Between Contacts: .155"

STANDARDS & SPECIFICATIONS

- NanoRF Product Specification: 108-163037
- NanoRF Qualification Test Report: 501-134137
- NanoRF Instruction Sheet: 408-163038

LEARN MORE

NanoRF 75 Ohm Landing Page

NanoRF 75 Ohm Parts List

NanoRF 75 Ohm Brochure