INTRODUCING

NanoRF Connector Module for VITA VNX+ Standard



- **Small form factor**
- **Higher density**

TE Connectivity (TE)'s latest NanoRF connector modules for VNX+ designed per the VITA 90.7 draft standard offers advanced performance in many demanding aerospace and defense applications by providing high speed and density in a small form factor. The interface leverages the technology used in VPX systems, featuring a floating insert to pre-align RF contacts and mechanical transfers (MTs) before engagement. Radial and axial contact float helps assure final alignment of the contacts and keeps the contacts fully engaged for excellent RF performance under harsh environments.

This product addresses the emerging need for small form factor packages to support applications such as radio transceivers, signal and graphics processors, network and fabric switches, and other I/O modules requiring coaxial or optical MT signaling.

TARGET MARKETS

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

APPLICATIONS

- Radar
- Electronic warfare / C5ISR
- Missile guidance
- Tactical communication
- Small UAVs and spacecraft
- Drones

ELECTRICAL

- **Rated Max Frequency:** 60 GHz – 50 Ohm, 18 GHz* – 75 Ohm

MECHANICAL

- **Mating Cycles:** Up to 500 cycles durability
- **Operating Temperature:** -55°C to 120°C
- **Pitch Between Contacts:** .155"

KEY BENEFITS

- Floating inserts on backplane side with alignment features provide reliable, stub-free mating
- No special tooling needed for application and rework
- Fits in standard VNX+ backplane apertures with mounting design that accommodates varying backplane thicknesses
- Connector modules designed per an evolving set of standards per VITA 90 allowing intermateability and interoperability among suppliers of VNX+ compliant hardware for a robust supply chain
- High density package with open standard
- Leverages existing VPX NanoRF 50 and 75 Ohm contacts
- Small form factor saves space, weight, power and cost (SWaP-C)

STANDARDS AND SPECIFICATIONS

- **NanoRF Product Specification** 108-163037 (75 Ohm), 108-163006 (50 Ohm)
- **NanoRF Qualification Test Report** 501-134137 (75 Ohm), 501-134076 (50 Ohm)
- **NanoRF Instruction Sheet** 408-163038 (75 Ohm), 408-163016 (50 Ohm)

LEARN MORE

- Landing Page
- Brochure

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