

# INTRODUCING NanoRF Modules and Contacts

High Frequency Nanominiature Coax Contact with High Density Modular Packaging, Designed for Extreme Rugged Environments

- **Floating insert in backplane pre-aligns RF contacts before engagement**
- **Small contact size with higher RF contact density to enable smaller packaging**



A higher density RF coax module, twice the density of VITA 67 SMPM RF modules used in VPX embedded computing applications. Half and full size module sizes can retain up to 12 or 18+ RF contacts, with options for customizing contact count and position.

The interface features a floating insert to pre-align RF contacts BEFORE engagement. Radial and axial contact float assures final alignment of the contacts and keeps the contacts fully engaged.

## LIGHTER WEIGHT

- Small contact size with higher RF contact density
- Aluminum modules available for weight reduction

## MODULAR

- Blind-mateable float-mounted backplane contacts for module-to-module or box-to-box architecture
- Multiple cable types to fit application requirements designed for .047 inch coax cable

## RELIABLE

- Low loss and excellent isolation for signal integrity
- TE tested to vibration requirements per VITA 72

## LEARN MORE

[Landing Page](#)

[Family Brochure](#)

[NanoRF Parts List](#)

## MARKETS

- Military Electronics
- C4ISR
- Electronic Warfare (EW)

## APPLICATIONS

- Embedded Computing - VPX modules and radar processing

## MECHANICAL

- Supports as low as 0.110 inch contact pitch
- Fits in VPX systems packaging requirements
- 500 mating cycles

## ELECTRICAL

- Excellent RF performance through 60 GHz
- Isolation minimum 100 dB up through 27 GHz
- Temperature rating: -65°C to +120°C

## MATERIALS

- Aluminum and stainless steel options for modules
- Copper alloy, 50 microinch gold plating, PTFE dielectrics