

NanoRF Modules and Contacts

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

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LIGHTER WEIGHT

- Small contact size with higher RF contact density enables smaller packaging
- 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 and .086 inch coax cable

RELIABLE

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

INDUSTRIES

- Military Electronics
- C4ISR
- Electronic Warfare (EW)

APPLICATIONS

- Embedded Computing - VPX modules and Radar processing

Twice the Density of VITA 67 RF Modules

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 daughtercard modules are mounted to the card in the VPX Plug-In module, and the backplane module into the chassis backplane.

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 for excellent RF performance under harsh environments.

The contact design supports frequencies up to 70 GHz, and is designed to terminate to standard .047" and .086" semi-rigid and flexible cables.





MATERIALS

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

ELECTRICAL

- Excellent RF performance through 60 GHz
- Isolation minimum 100 dB up through 27 GHz

PRODUCT INFORMATION

MECHANICAL

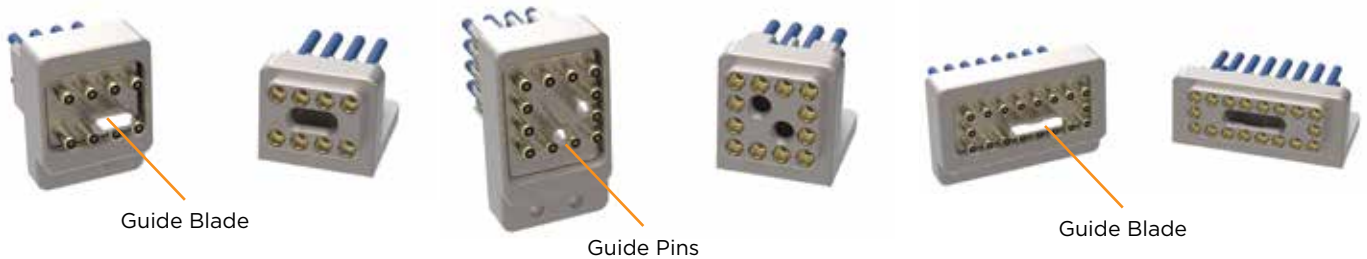
- Supports as low as 0.110 inch contact pitch
- Fits in VPX systems packaging requirements
- 500 mating cycles durability
- Meets high vibration requirements of VITA 72

APPLICATION TOOLING

- No special tooling required

Module Size	BackPlane PN	Sts Steel	Alum	Plug-in Module	Sts Steel	Alum	Total # of Contacts	Contacts by Cable Diameter	
Half Modules	2828434 (Custom) Cutout	-1	-2	2828431-1	-1	-2	8	8	.047"
	2332627 (67.3D) Cutout	-1	-2						
	2357971 (67.3D) Cutout	N/A	-1	2357976	N/A	-1	9	8	.086"
	2313228 (Custom) Cutout	-1	-2	2313225	-1	-2	12	12	.047"
	2313376 (67.3D) Cutout	-1	-2						
	Full Modules	2828395 (Custom) Cutout	-1	-2	2828392	-1	-2	16	16
2341106 (67.3C) Cutout		-1	-2						
2322337 (Custom) Cutout		-1	-2	2322335	-1	-2	18	18	.047"
2343040 (67.3C) Cutout		-1	-2						

Contact Kits	Part Number	Cable Dia
Backplane	2302345-1	.047"
	2332772-1	.086"
Plug-in Module	2302339-1	.047"



LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit te.com to chat with a Product Information Specialist.

Technical Support

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Consult TE for the latest dimensions and design specifications.

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