

VITA 67.3

High Density & High Performance
RF Addition to the **OpenVPX™** Platform



Features & Benefits

- Coaxial interface standard for daughtercard to backplane connectors
- Edge launch option eliminates cable assemblies on plug-in card
- Customizable RF contact locations within module
- SMPM min pitch .228" and SMPS min pitch .155"
- Designed for side-by-side implementation with other VITA connector standards
- Floating SMPM coaxial pins ensure excellent RF performance in any mating condition
- Overlapping bodies reduce crosstalk
- Blindmate and simplified cable routing reduces Mean-Time-To-Repair (MTTR)
- Unique SV connector retention mechanism offers significant ease of assembly/disassembly
- Meets or exceeds environmental tests (shock, vibe, temperature) as specified in VITA 67

Applications

- Robust and rugged high speed coax solution
- High-reliability, high-density for aerospace & defense applications
- SIGINT, EWR, ground base station & communication systems, avionics, radar systems
- Air Transport Racks (ATRs) without Rear Transition Modules (RTMs) or limited speed through RTM

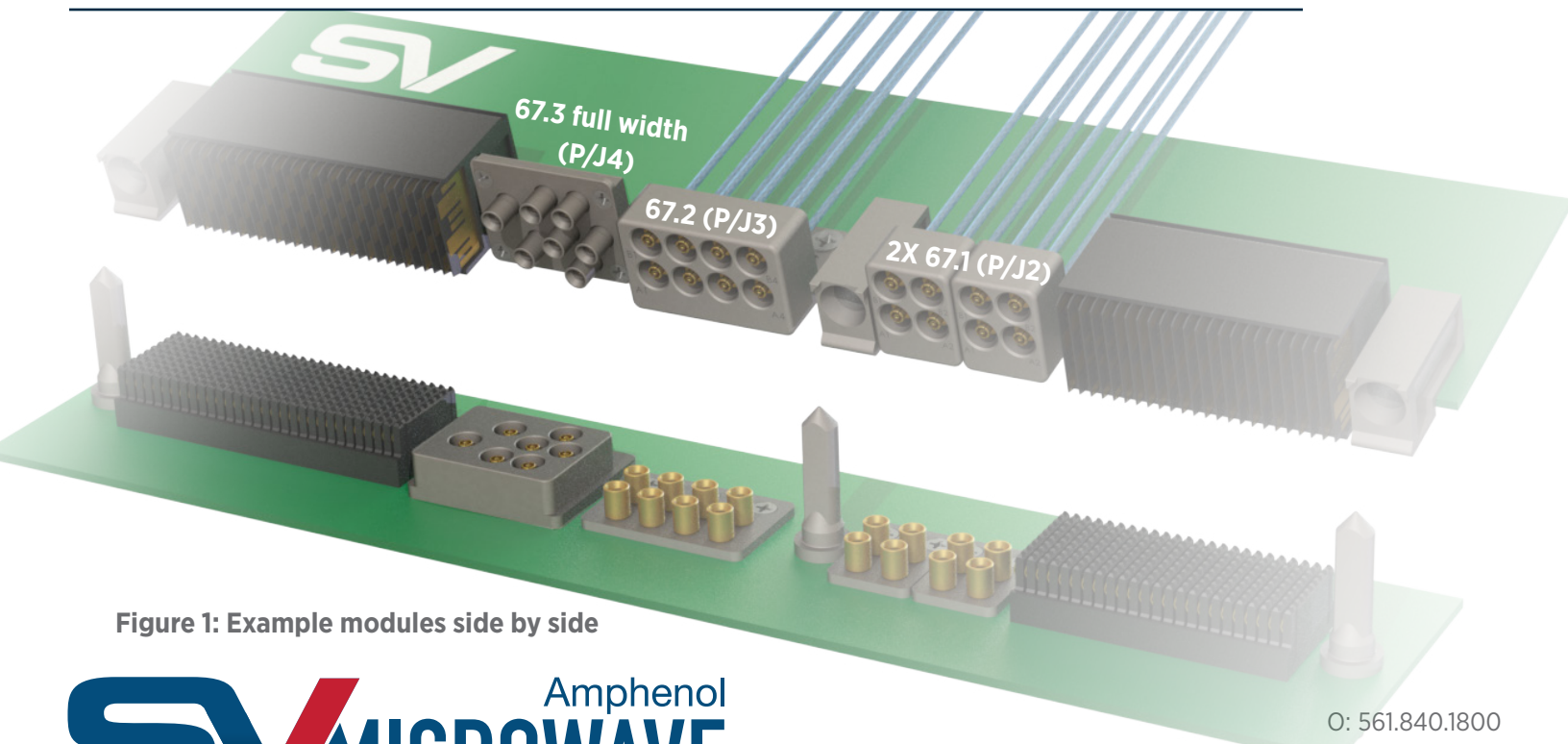


Figure 1: Example modules side by side

Specifications

Electrical

VSWR	1.5:1, DC - 40 GHz	
Insertion Loss	0.12 * \sqrt{f} (GHz), DC to 40 GHz	
Isolation	3 MHz - 30 MHz	140 dB
	30 MHz - 3 GHz	120 dB
	3 GHz - 27 GHz	100 dB
	27 GHz - 40 GHz	90 dB

Mechanical

Axial Travel	.079" Min
Radial Float	\pm .010" Min
Engage Force	2.5 lbs (typical per contact)

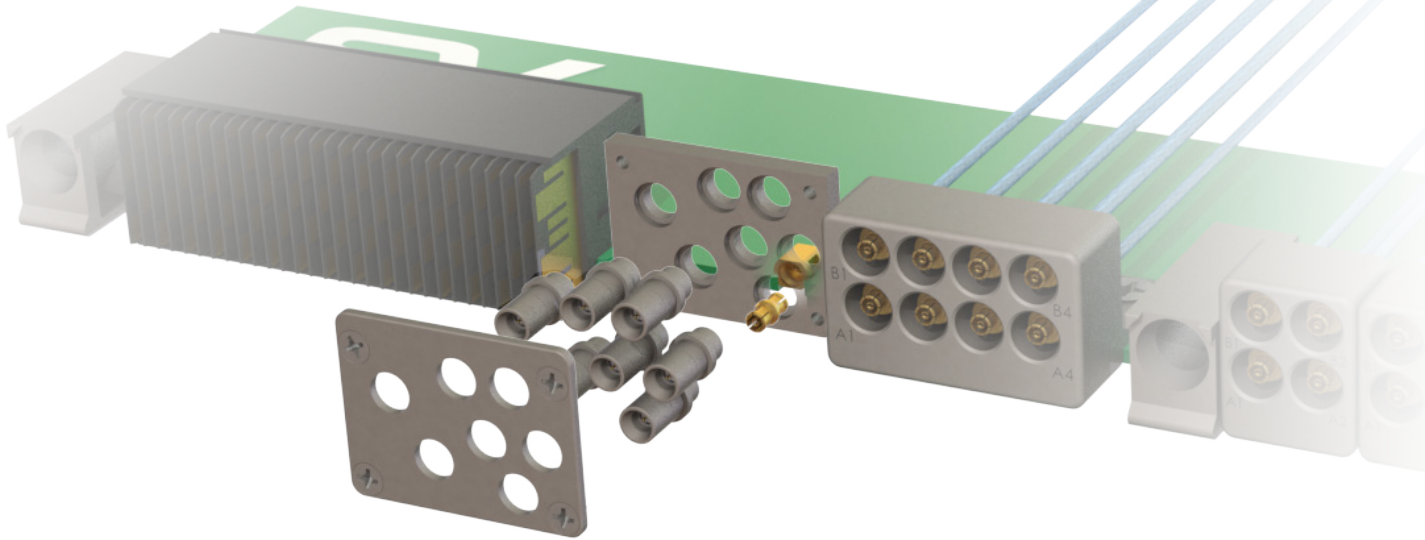


Figure 2: Plug-in card exploded view, catalog SMPM PCB launch and bullet shown on carrier card

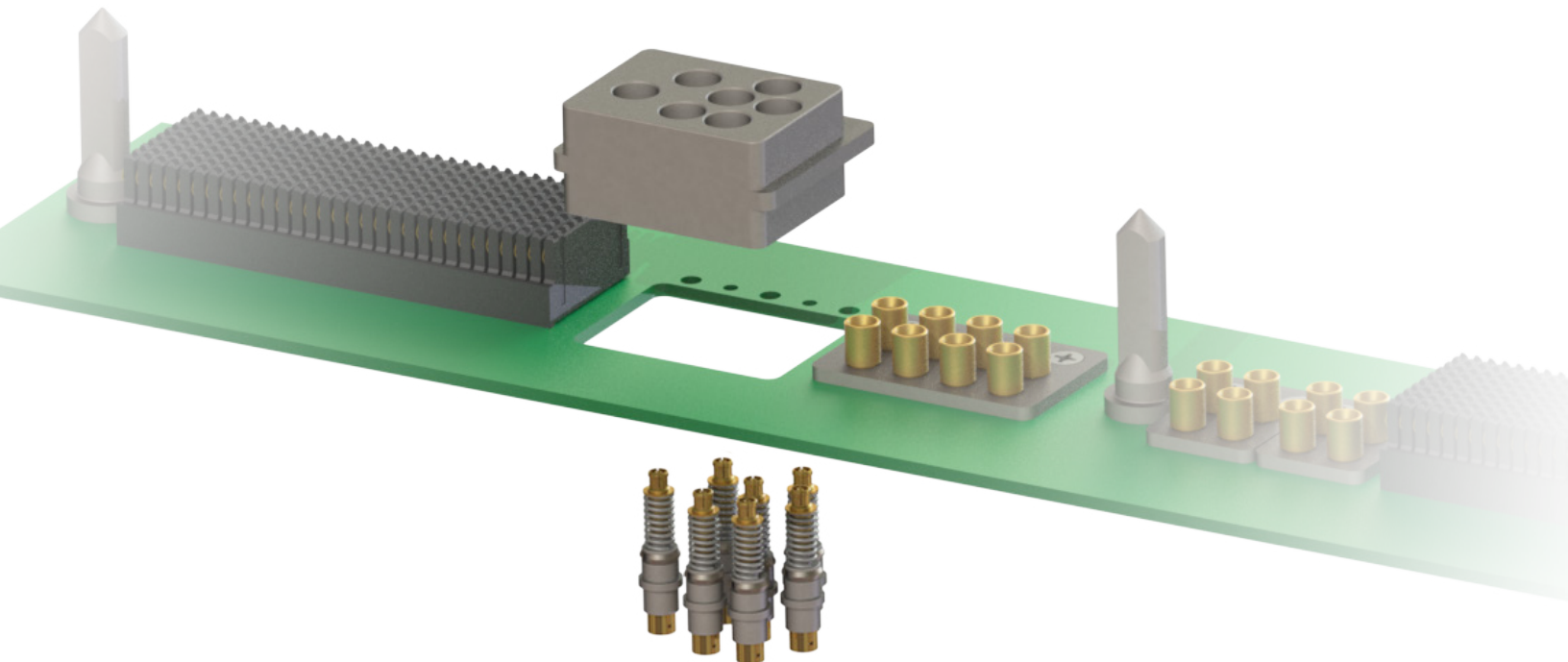


Figure 3: Backplane Module C exploded view with \varnothing .086 SMPM contacts shown.