



# V-BITE® Type N Connectors

50 Ohm Edge-Mount PCB



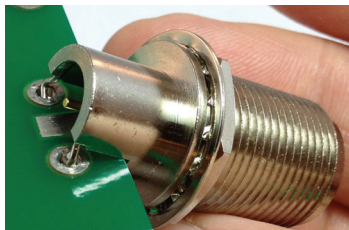
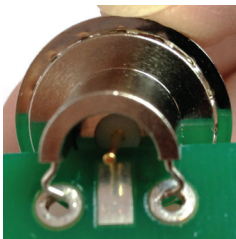
## Product Description

V-Bite® Edge-Mount Type N PCB Connectors feature a unique and patented design that provides ease of assembly, outstanding RF performance, and superior mechanical strain relief.

V-Bite® Edge-Mount Type N connectors are available in 50 Ohm and can be used in a wide range of applications including Antennas, Telecommunications Equipment, and Test and Measurement.

V-Bite® Edge-Mount Type N PCB connectors snap into the printed circuit board and are held securely in position prior to soldering. Connector bodies are notched where they attach to the board, which helps to provide excellent strain relief and prevent fatigue to the solder joints during connector mating and unmating.

The edge-mount design utilizes a straight SMT contact for the RF signal that yields optimal performance versus a right-angle through-hole PCB connector.



- V-Bite® Edge-Mount connectors feature a semi-circle shaped spring contact staked into a groove at the rear of the connector.
- V-Bite® Edge-Mount connectors are fast and simple to install. Simply place the connector at a 45-degree angle to the PCB. Insert the PCB into the notched opening and push down onto the connector to seat it firmly in place.
- Once installed, V-Bite® Edge-Mount connectors are ready to be soldered and do not require special fixtures to hold the connectors in true position.

## Specifications

### Electrical

Impedance:	50 Ohms
Frequency Range:	0 - 11GHz
Working Voltage:	≤ 1500 VRMS
Dielectric	
Withstanding Voltage:	2500 VRMS at sea level
VSWR:	Straight: 1.15 Max Right Angle: 1.2 Max
Contact Resistance:	Center Contact: ≤ 1 Milliohms Outer Contact: ≤ 0.2 Milliohms
Insulation Resistance:	5000 Milliohms
Insertion Loss:	0.2 dB Max

### Environmental

Temperature Range:	- 65° C to + 165° C
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### Material

Body & Outer Contact:	Brass Nickel Plated / Gold
Female Contact:	Phosphor Bronze, Gold Plated
Insulator:	Polyethylene or PTFE

### Mechanical

Coupling Nut Retention:	100 lbs. Max
Cable Retention:	60 lbs. Min
Coupling Mating Torque:	6-10 in-lbs.
Durability:	500 Cycles Min

## Part Numbers

Part Number	Description	PCB Thickness	Panel Thickness Maximum	Mounting Hardware
161V504E	Type N Edge-Mount Jack	0.062 inch	0.275 inch	
161V504EFT	Type N Edge-Mount Jack, Bulkhead	0.062 inch	0.275 inch	Included
161VUS504EFT	Type N Edge-Mount Jack, Bulkhead, Undershield	0.062 inch	0.275 inch	Included
161VU504EFTW	Type N Edge-Mount Jack, Bulkhead, with Gasket	0.062 inch	0.275 inch	Included
162V504E	Type N Edge-Mount Plug	0.062 inch	0.275 inch	



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