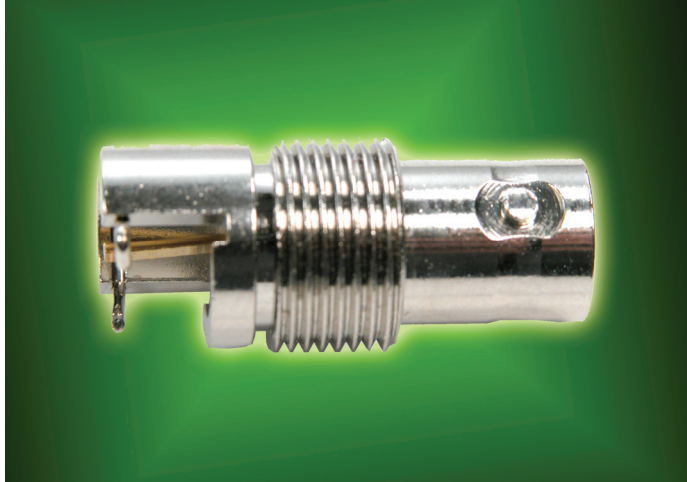




# V-BITE<sup>®</sup> BNC Connectors

## 50 Ohm & 75 Ohm Edge-Mount PCB



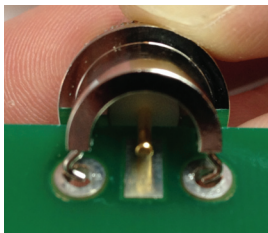
### Product Description

V-Bite<sup>®</sup> Edge-Mount BNC PCB Connectors feature a unique and patented design which provides ease of assembly, outstanding RF performance, and superior mechanical strain relief.

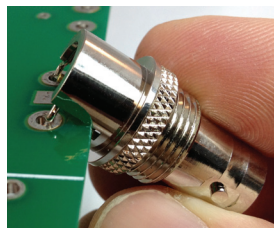
V-Bite<sup>®</sup> Edge-Mount BNC connectors are available in 50 Ohm and 75 Ohm and can be used in a wide range of applications including Broadcast Routers, Medical Equipment, Security, Telecommunications, and Test and Measurement.

V-Bite<sup>®</sup> Edge-Mount BNC 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.

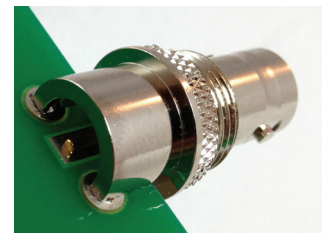
The edge-mount design utilizes a straight SMT contact for the RF signal that yields optimal performance versus a right-angle through-hole PCB connector.



- V-Bite<sup>®</sup> Edge-Mount connectors feature a semi-circle shaped spring contact staked into a groove at the rear of the connector.



- V-Bite<sup>®</sup> 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<sup>®</sup> 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 Ohm or 75 Ohm  |
| Frequency Range:       | 0 - 4 GHz   |
| Working Voltage:       | ≥ 500 VRMS  |
| Dielectric             |   |
| Withstanding Voltage:  | 1500 VRMS at sea level  |
| VSWR:                  | Straight: 1.15 Max<br>Right Angle: 1.2 Max                        |
| Contact Resistance:    | Center Contact: ≤ 1.5 Milliohms<br>Outer Contact: ≤ 0.2 Milliohms |
| Insulation Resistance: | 5000 Milliohms  |
| Insertion Loss:        | 0.2 dB Max  |

### Environmental

|                    |                     |
|--------------------|---------------------|
| Temperature Range: | - 65° C to + 165° C |
|--------------------|---------------------|

### Material

|                       |                                 |
|-----------------------|---------------------------------|
| Body & Outer Contact: | Brass Nickel Plated / Gold      |
| Female Contact:       | Phosphor Bronze,<br>Gold Plated |
| Insulator:            | Polyethylene or PTFE            |

### Mechanical

|                           |                |
|---------------------------|----------------|
| Center Contact Retention: | ≥ 6 lbs.       |
| Engagement Force:         | ≤ 5 lbs.       |
| Disengagement Force:      | ≥ 1.5 lbs.     |
| Durability:               | 500 Cycles Min |

## Part Numbers

| Part Number | Description                    | Impedance | PCB Thickness | Mounting Hardware |
|-------------|--------------------------------|-----------|---------------|-------------------|
| 361V504ER   | BNC Jack                       | 50 Ohm    | 0.062 inch    |                   |
| 361V504ET   | BNC Jack, Threaded Body        | 50 Ohm    | 0.062 inch    | Sold Separately*  |
| 361V504EFT  | BNC Jack, Bulkhead             | 50 Ohm    | 0.062 inch    | Sold Separately*  |
| 361V704ER   | BNC Jack                       | 75 Ohm    | 0.062 inch    |                   |
| 361V704ET   | BNC Jack, Threaded Body        | 75 Ohm    | 0.062 inch    | Sold Separately*  |
| 361V704EFT  | BNC Jack, Bulkhead             | 75 Ohm    | 0.062 inch    | Sold Separately*  |
| 361V704EFTW | BNC Jack, Bulkhead with Gasket | 75 Ohm    | 0.062 inch    | Included          |

### \*Mounting Hardware

Lockwasher: 364LW  
 Spanner Nut: 361KNT  
 Hex Nut: 364NT



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