

18 GHz SMA Male Right Angle Precision Connector  
Clamp/Solder Attachment for 142 Low Loss



**LCCN3181**

**Configuration**

- SMA Male Connector
- MIL-PRF-39012
- 50 Ohms
- Right Angle Body Geometry
- 142 Low Loss Interface Type
- Clamp/Solder Attachment
- 5/16 inch Hex
- Precision Design

**Description**

The L-com LCCN3181 SMA male connector has a passivated stainless steel body for telecommunications, data communication, general-purpose test, industrial fields, and rack and panel mount applications. This RF connector has a right angle body style and beryllium copper contact with gold over nickel plating. This threaded standard coaxial connector works on a maximum frequency of 18 GHz and provides an excellent maximum VSWR of 1.16.

The 18 GHz SMA connector is available in a 1.060 inch length, 0.630-inch width, and 0.395-inch height. The 142 low loss coax connector allows developers to configure and customize their signal connections however they desire. This SMA connector with clamp/solder attachment has a high-quality construction and an impedance of 50 ohms.

The LCCN3181 142 low loss coax facilitates RF connectivity between boards and several microwave components including filters, attenuators, mixers, and oscillators. This 18 GHz passivated stainless steel coaxial connector comes with PTFE insulation. The SMA male connector weighs 0.011 pounds and is most used in USB software-defined radio dongles, handheld radios, mobile phone antennas, Wi-Fi antenna systems, and microwave systems.

L-com has the largest in-stock selection of RF and coaxial connectors with same-day shipping for domestic and international orders. We currently have a variety of antenna, audio/video, Ethernet, fiber optic, and USB connectors in our portfolio that are ready to ship today. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the high-quality RF connector that meets your requirements.

**Electrical Specifications**

| Description                          | Minimum      | Typical | Maximum | Units |
|--------------------------------------|--------------|---------|---------|-------|
| Frequency Range                      | DC           |         | 18      | GHz   |
| VSWR                                 |              |         | 1.16:1  |       |
| Insertion Loss                       |              |         | 0.42    | dB    |
| Operating Voltage (AC)               |              |         | 170     | Vrms  |
| Dielectric Withstanding Voltage (AC) |              |         | 500     | Vrms  |
| High Potential Voltage               |              |         | 325     | Vrms  |
|                                      | 5 to 7.5 MHz |         |         |       |
| @@Corona Discharge                   |              |         | 125     | Vrms  |
|                                      | at 70,000 ft |         |         |       |
| Insulation Resistance                | 5,000        |         |         | MOhms |
| RF Leakage                           | 90           |         |         | dB    |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[18 GHz SMA Male Right Angle Precision Connector Clamp/Solder Attachment for 142 Low Loss LCCN3181](#)

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**Performance by Frequency**

| Description     | F1         | F2         | F3 | F4 | F5 | Units |
|-----------------|------------|------------|----|----|----|-------|
| Frequency Range | DC to 12.4 | 12.4 to 18 |    |    |    | GHz   |
| VSWR, Max       | 1.14:1     | 1.16:1     |    |    |    |       |

**Mechanical Specifications**

**Size**

|               |              |                |
|---------------|--------------|----------------|
| Length        | 1.06in       | [26.92mm]      |
| Width/Dia.    | 0.63in       | [16.00mm]      |
| Height        | 0.395in      | [10.03mm]      |
| Weight        | 0.011lbs     | [4.99g]        |
| Mating Torque | 5 to 8in-lbs | 0.57 to 0.90Nm |

**Material Specifications**

| Description  | Material                   | Plating                            |
|--------------|----------------------------|------------------------------------|
| Contact      | Beryllium Copper           | Gold over Nickel<br>50 µin minimum |
| Insulation   | PTFE                       |                                    |
| Body         | Passivated Stainless Steel | SAE-AMS-2700                       |
| Coupling Nut | Passivated Stainless Steel | SAE-AMS-2700                       |

**Environmental Specifications**

**Temperature**

Operating Range -65deg C to +165deg C

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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

18 GHz SMA Male Right Angle Precision Connector Clamp/Solder Attachment for 142 Low Loss from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components. Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 18 GHz SMA Male Right Angle Precision Connector Clamp/Solder Attachment for 142 Low Loss LCCN3181

URL: <https://www.l-com.com/18-ghz-sma-male-right-angle-precision-connector-clamp-solder-attachment-142-low-loss-lccn3181-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.ontained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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## L-com CAD Drawing

