

18 GHz SMA Male Connector Clamp/Solder Attachment for 160 Low Loss



LCCN3207

Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- 160 Low Loss Interface Type
- Clamp/Solder Attachment

Description

The L-com LCCN3207 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 straight body style and beryllium copper contact with gold 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 1.270-inch length, 0.312-inch width, and 0.312-inch height. The 160 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 LCCN3207 160 low loss coax RF connector 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 0.007 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	
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Electrical Specification Notes:
Insertion Loss is $0.04 \times \sqrt{\text{Freq GHz}}$

Mechanical Specifications

Size

Length	1.27in	[32.26mm]
Width/Dia.	0.312in	[7.92mm]
Height	0.312in	[7.92mm]
Weight	0.007lbs	[3.18g]

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 Connector Clamp/Solder Attachment for 160 Low Loss LCCN3207](#)

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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold ASTM-B488
Insulation	PTFE	
Body	Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel	
Gasket	Silicone Rubber	
Crimp Sleeve	Brass	Gold ASTM-B488
O-Ring	Silicone Rubber	

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

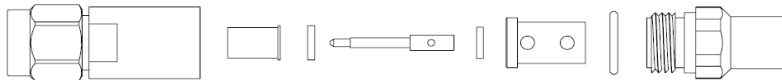
Assembly Instruction

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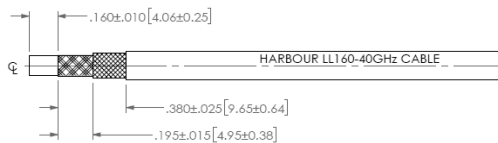
LCCN3207



EXPLODED VIEW
NOT TO SCALE
(FOR CLARITY ONLY)

ASSEMBLY PROCEDURE

1. TRIM CABLE TO EXPOSE DIELECTRIC AND BRAIDS AS SHOWN.



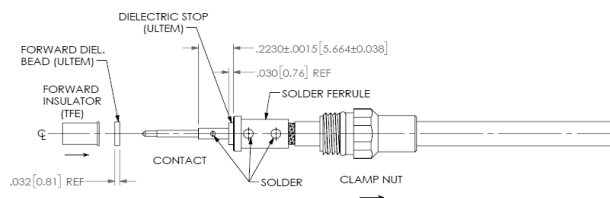
2A. SLIDE CLAMP NUT OVER CABLE AS SHOWN.

2B. INSERT CABLE INTO SOLDER FERRULE UNTIL INNER BRAID IS SEATED AND SOLDER CABLE BRAIDS WHERE SHOWN.

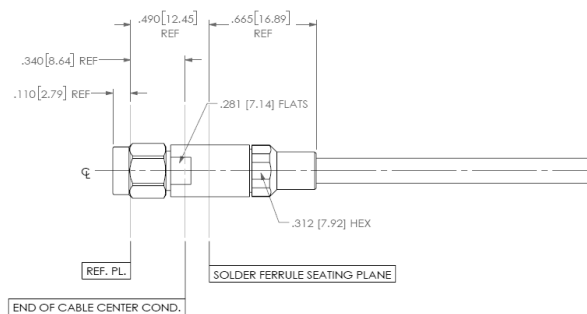
2C. TRIM CABLE DIELECTRIC FLUSH WITH FACE OF SOLDER FERRULE.

2D. SLIDE DIELECTRIC STOP (Ø .144 [3.66] OD) OVER CABLE CENTER CONDUCTOR AND SOLDER CONTACT FLUSH TO STOP TO DIMENSION SHOWN.

2E. SLIDE FORWARD INSULATOR & DIELECTRIC BEAD (Ø .158 [4.01] OD) ONTO CONTACT.



3. INSERT CABLE/CONTACT SUB-ASSEMBLY INTO CONNECTOR UNTIL SEATED AND TIGHTEN CLAMP NUT TO 25-35 IN-LBS.



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18 GHz SMA Male Connector Clamp/Solder Attachment for 160 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 Connector Clamp/Solder Attachment for 160 Low Loss LCCN3207

URL: <https://www.l-com.com/18-ghz-sma-male-connector-clamp-solder-attachment-160-low-loss-lccn3207-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 implement 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. 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 implement 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

