

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



LCCN3182

Configuration

- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- 142 Low Loss Interface Type
- Clamp/Solder Attachment
- 5/16 inch Hex
- Precision Design

Description

The L-com LCCN3182 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 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 1.430 inch length, 0.370-inch width, and 0.370-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 LCCN3182 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 0.009 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			0.17	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
High Potential Voltage			670	Vrms
	5 to 7.5 MHz			
@@Corona Discharge			250	Vrms
	at 70,000 ft			
Insulation Resistance	5,000			MOhms
RF Leakage	90			dB

Electrical Specification Notes:

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 Precision Connector Clamp/Solder Attachment for 142 Low Loss LCCN3182](#)

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Insertion loss: 0.04 x sqrt(fGHz) dB max.//RF leakage: 90 dB min up to 1 GHz.

Mechanical Specifications

Size		
Length	1.43in	[36.32mm]
Width/Dia.	0.37in	[9.40mm]
Height	0.37in	[9.4mm]
Weight	0.009lbs	[4.08g]
Mating Cycles	500Cycles	
Mating Torque	7 to 10in-lbs	0.79 to 1.13Nm

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 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
Humidity	MIL-STD-202, Method 106, No Vibration
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition D
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B (5%)

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

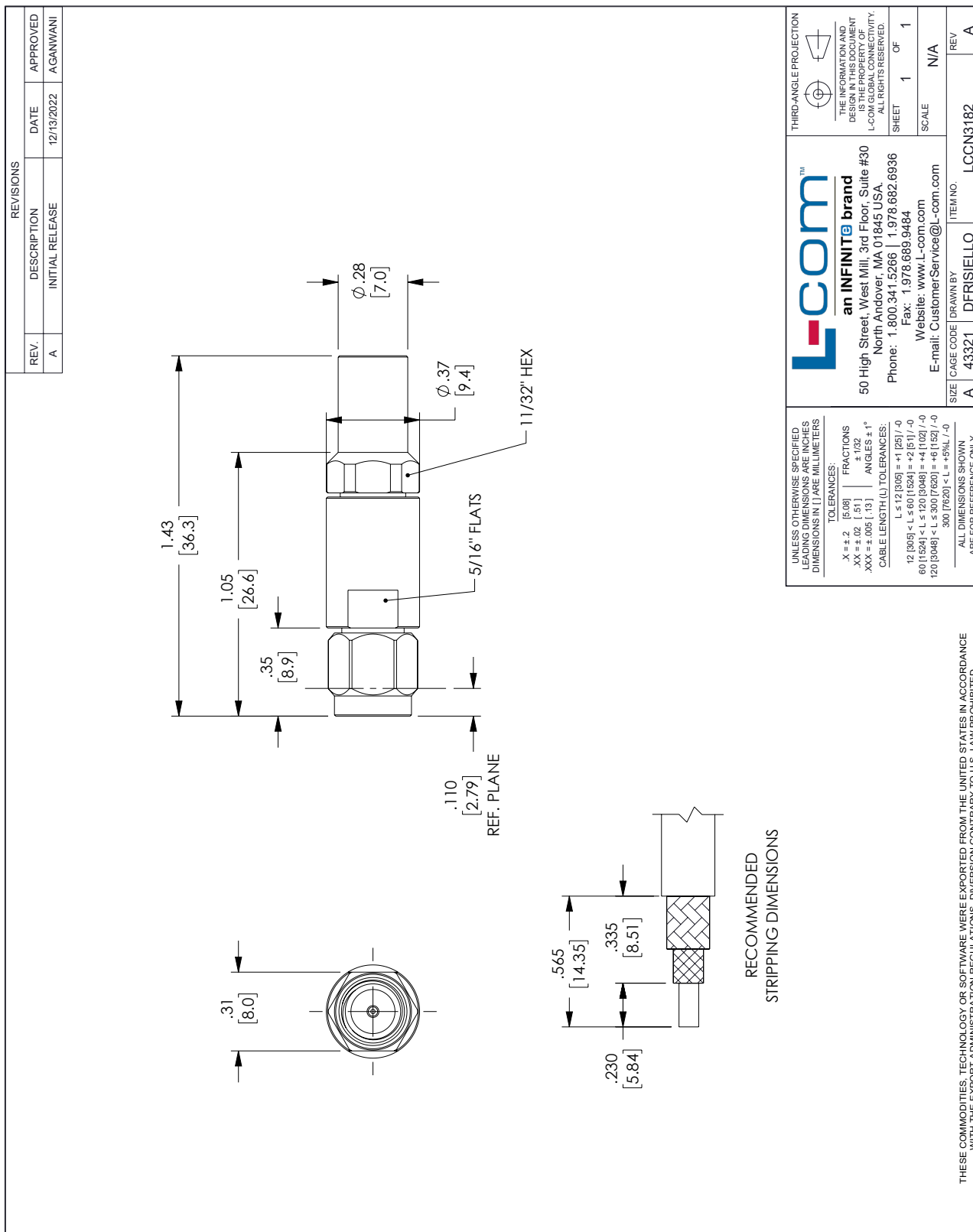
Plotted and Other Data

18 GHz SMA Male 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 Precision Connector Clamp/Solder Attachment for 142 Low Loss LCCN3182

URL: <https://www.l-com.com/18-ghz-sma-male-precision-connector-clamp-solder-attachment-142-low-loss-lccn3182-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.

L-com CAD Drawing



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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

CAGE CODE	DRAWN BY	ITEM NO.	
A	43321	DFRSIELLO	LCCN3182

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS ± 1/32
.XX = ±.02 [.51]	ANGLES ± 1°
.XXX = ±.005 [.13]	

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

T-Rev-D