

SMP Male Limited Detent Connector Solder Attachment End Launch PCB, Up To 8 GHz



RFPCB-SMP-MS-8G-203

Configuration

- Limited Detent SMP Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- End Launch Interface Type
- Solder Attachment

Features

- Max. Operating Frequency 8 GHz
- Excellent VSWR of 1.1:1
- Gold Plated Beryllium Copper Contact
- Blind Mate Connector

Applications

- General Purpose Test
- PCB Applications

Description

RFPCB-SMP-MS-8G-203 SMP Male PCB connector available from L-com has a 50 Ohm impedance. This RF connector has a End Launch connector mount interface and is designed for a wide variety of Printed-Circuit Board (PCB) applications in RF and microwave systems. This SMP Male connector uses solder as an attachment method. Our Male SMP PCB connector provides a maximum frequency of 8 GHz. The SMP connector is available in a 0.28-inch length and 0.30-inch width.

The L-com SMP Male PCB connector has a PTFE dielectric type and a VSWR of 1.1:1. This SMP Male connector has a Beryllium Copper body with gold plating. Our RFPCB-SMP-MS-8G-203 SMP connector has a brass contact with gold plating.

This L-com SMP Male connector will ship the same day as purchased. Our SMP Male connector is part of over 40,000 RF, microwave, and millimeter wave components in stock for worldwide shipment. We also build SMP custom connector cable assemblies that will ship the same day as well.

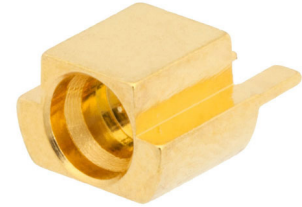
The SMP Male connector with 50 Ohm impedance has a weight of 0.002 lbs. This Push-on RF connector has a high quality construction. The Jack coaxial connector is capable of operating at temperatures ranging from -65 deg C to 165 deg C. We currently have a variety of antenna, audio/video, Ethernet, fiber 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 that meets your requirements.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.1:1	
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[SMP Male Limited Detent Connector Solder Attachment End Launch PCB, Up To 8 GHz RFPCB-SMP-MS-8G-203](#)

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Electrical Specification Notes:

Insertion loss = $0.13 \times \sqrt{f(\text{GHz})}$ dB max.

Mechanical Specifications

Size

Length	0.289in	[7.34mm]
Width/Dia.	0.305in	[7.75mm]
Height	0.171in	[4.34mm]
Weight	0.002lbs	[0.91g]
Mating Cycles	500Cycles	

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Brass	Gold

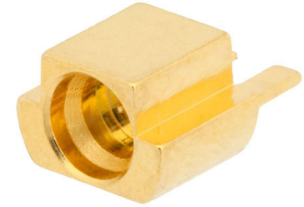
Environmental Specifications

Temperature

Operating Range -65deg C to +165deg C

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

Plotted and Other Data

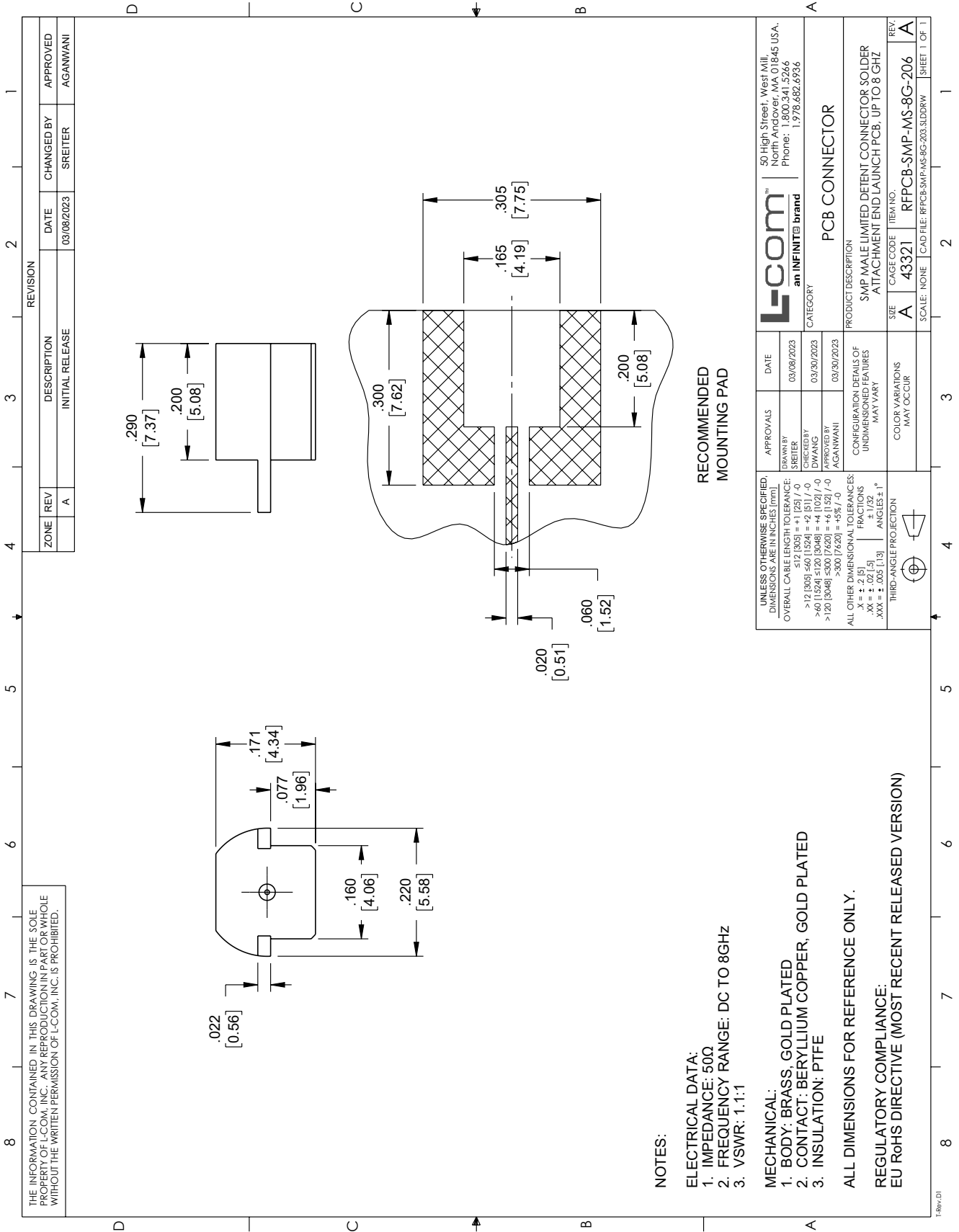
SMP Male Limited Detent Connector Solder Attachment End Launch PCB, Up To 8 GHz from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, 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: SMP Male Limited Detent Connector Solder Attachment End Launch PCB, Up To 8 GHz RFPCB-SMP-MS-8G-203

URL: <https://www.l-com.com/smp-male-limited-detent-connector-solder-attachment-end-launch-pcb-up-8-ghz-rfpcb-smp-ms-8g-203-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



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NOTES:
ELECTRICAL DATA:
 1. IMPEDANCE: 50Ω
 2. FREQUENCY RANGE: DC TO 8GHz
 3. VSWR: 1.1:1

MECHANICAL:
 1. BODY: BRASS, GOLD PLATED
 2. CONTACT: BERYLLIUM COPPER, GOLD PLATED
 3. INSULATION: PTFE

ALL DIMENSIONS FOR REFERENCE ONLY.
 REGULATORY COMPLIANCE:
 EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	03/08/2023	SREITER	AGANWANI

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (mm)	APPROVALS	DATE	ITEM NO.
OVERALL CABLE LENGTH TOLERANCE: ≤12 [305] ≤60 [1524] = +1 [25] / -0 >12 [305] ≤60 [1524] = +2 [51] / -0 >60 [1524] ≤120 [3048] = +4 [102] / -0 >120 [3048] ≤300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0	DRAWN BY: SREITER CHECKED BY: DWANG APPROVED BY: AGANWANI	03/08/2023 03/30/2023 03/30/2023	L-com™ an INFINITE brand PCB CONNECTOR
ALL OTHER DIMENSIONAL TOLERANCES: XX = ± .2 [5.1] XXX = ± .005 [0.13] ANGLES ± 1°	CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY		PRODUCT DESCRIPTION SMP MALE LIMITED DETENT CONNECTOR SOLDER ATTACHMENT END LAUNCH PCB, UP TO 8 GHz
THIRD-ANGLE PROJECTION	COLOR VARIATIONS MAY OCCUR		SCALE: NONE