

QMA Male Right Angle Connector Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402

RA QMA male connector with solder/solder attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN and RG402, part number FMCN1889, from Fairview Microwave is in-stock and ships same day. This QMA male connector operates up to a maximum frequency of 18 GHz. The QMA male connector also has low passive intermodulation (PIM) of -130 dBc. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA QMA male connector FMCN1889 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
Passive Intermodulation using 2x20W tones			-130	dBc
Operating Voltage (AC)			335	Vrms
Test Voltage (AC)			1,000	Vrms
Inner Cond. DC Resistance			3	mOhms
Outer Cond. DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 3	3 to 4	4 to 6			GHz
VSWR, Max	1.06:1	1.09:1	1.12:1			

Electrical Specification Notes:

RF leakage: 95 dB (up to 2 GHz), 80 dB (up to 4 GHz), 70 dB (up to 6 GHz) min.

Insertion loss = $0.05 \times \sqrt{f(\text{GHz})}$ dB max up to 6 GHz.

Mechanical Specifications

Size

Length	0.79 in [20.07 mm]
Width/Dia.	0.433 in [11.00 mm]
Height	0.5 in [12.7 mm]
Weight	0.016 lbs [7.26 g]
Mating Cycles	100 Cycles



Configuration:

- QMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 Interface Type
- Solder/Solder Attachment

Features:

- Operating Frequency of 18 GHz Max.
- PIM levels better than -130 dBc
- Gold over Nickel Plated Brass Contact
- 0.15 μm minimum contact plating

Applications:

- General Purpose Test
- Custom Cable Assemblies

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Material Specifications

Description	Material	Plating
Contact	Brass	Gold over Nickel 0.15 µm minimum
Insulation	PTFE	
Outer Conductor	Spring Bronze	Tri-Metal
Body	Brass	Gold 0.15 µm minimum

Environmental Specifications

Temperature

Operating Range
Storage Range

-40 to +85 deg C
-40 to +85 deg C

Humidity

IEC 60169-1 16.3 (96 hours)

Vibration

IEC 60068-2-64 random

Thermal Shock

IEC 60169-1 16.4 (-40/+85°C)

Salt Spray

IEC 60109-1 16.7 (48 hrs)

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

Plotted and Other Data

Notes:

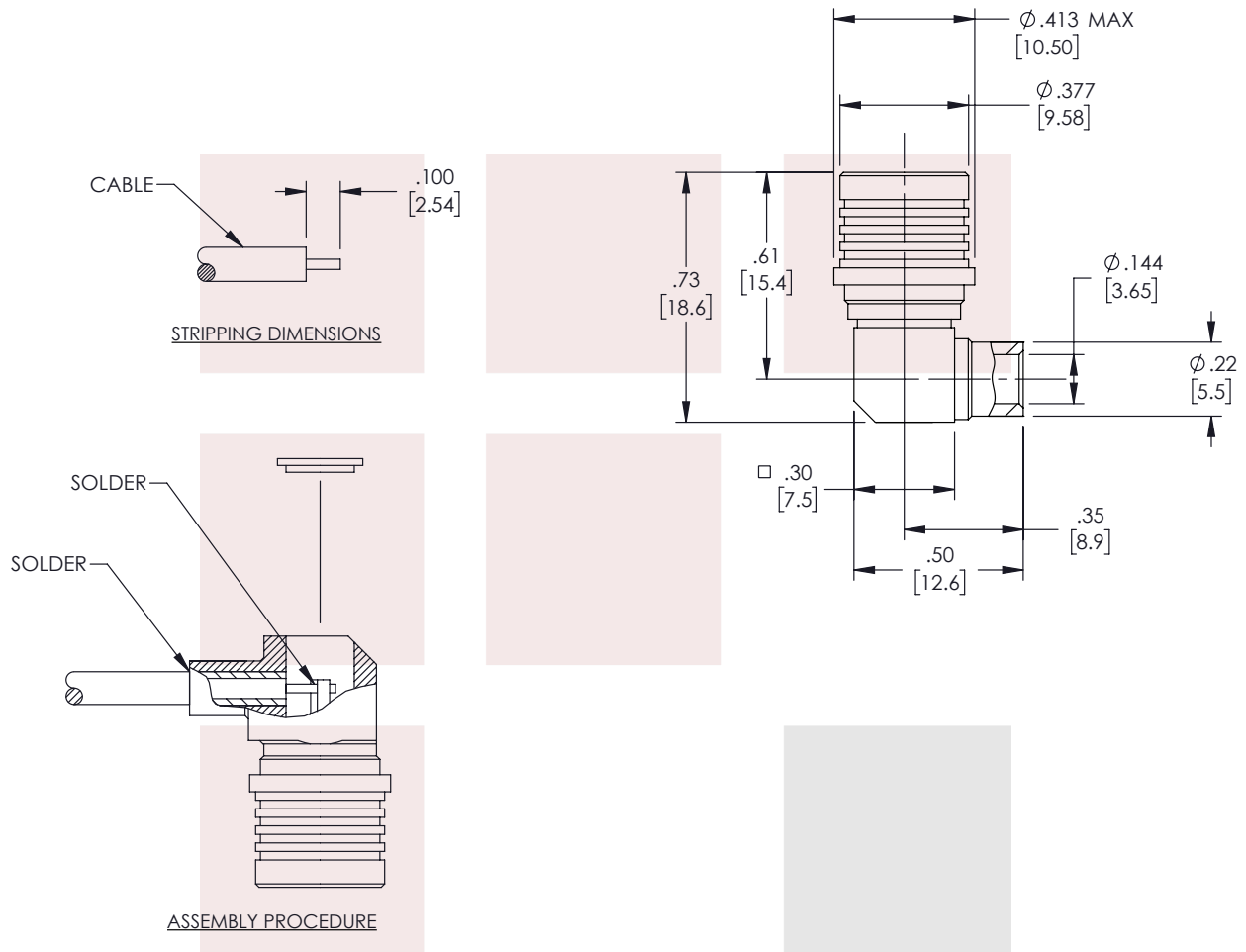
QMA Male Right Angle Connector Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [QMA Male Right Angle Connector Solder Attachment for FM-SR141ALTN, FM-SR141TB, FM-SR141TBJ, FM-SR141CUTN, RG402 FMCN1889](#)

URL: <https://www.fairviewmicrowave.com/qma-male-fm-sr141altn-fm-sr141tb-fm-sr141tbj-fm-sr141cutn-rg402-connector-fmcn1889-p.aspx>

The information contained in 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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/22/2022	AGANWANI



- ASSEMBLY PROCEDURE**
1. STRIP CABLE AS SHOWN AND TIN CENTER CONDUCTOR.
 2. SOLDER CENTER CONDUCTOR TO THE CONTACT IN CONNECTOR BODY. SOLDER SHIELD TO BODY AS SHOWN.
 3. PRESS CAP INTO PLACE.

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TITLE

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

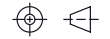
TOLERANCES:

.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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE

N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY AKRESOWSK	ITEM NO. FMCN1889	REV A
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