

## SMA Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable

SMA male connector with solder/solder attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR and FM-SR141CUTN-COIL, part number FMCN1939, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 26 GHz. The SMA male connector also has low passive intermodulation (PIM) of -155 dBc.

Fairview's SMA male connector FMCN1939 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  |     | 26   | GHz   |
| Passive Intermodulation |     |     | -155 | dBc   |
| DWV (AC)                |     |     | 750  | Vrms  |

### Performance by Frequency

| Description | F1       | F2       | F3 | F4 | F5 | Units |
|-------------|----------|----------|----|----|----|-------|
| Freq. Range | DC to 18 | 18 to 26 |    |    |    | GHz   |
| VSWR, Max   | 1.25:1   | 1.35:1   |    |    |    |       |

### Mechanical Specifications

|            |                    |
|------------|--------------------|
| Size       |                    |
| Length     | 0.5 in [12.7 mm]   |
| Width/Dia. | 0.36 in [9.14 mm]  |
| Height     | 0.36 in [9.14 mm]  |
| Weight     | 0.006 lbs [2.72 g] |

### Material Specifications

| Description  | Material | Plating   |
|--------------|----------|-----------|
| Contact      | Brass    | Silver    |
| Insulation   | PTFE     |           |
| Body         | Brass    | Tri-Metal |
| Coupling Nut | Brass    | Tri-Metal |



### Configuration:

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR-141CUTN-COIL Interface Type
- Solder/Solder Attachment
- Low PIM Design

### Features:

- Operating Frequency of 26 GHz Max.
- PIM levels better than -155 dBc
- Silver Plated Brass Contact

### Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Environmental Specifications

### Temperature

Operating Range -40 to +155 deg C

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

## Plotted and Other Data

Notes:

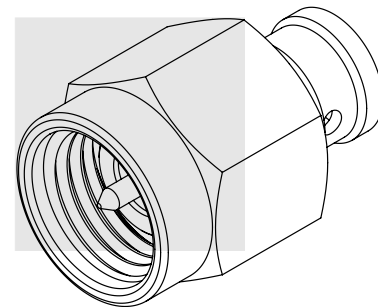
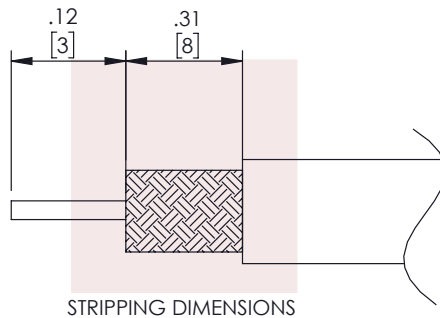
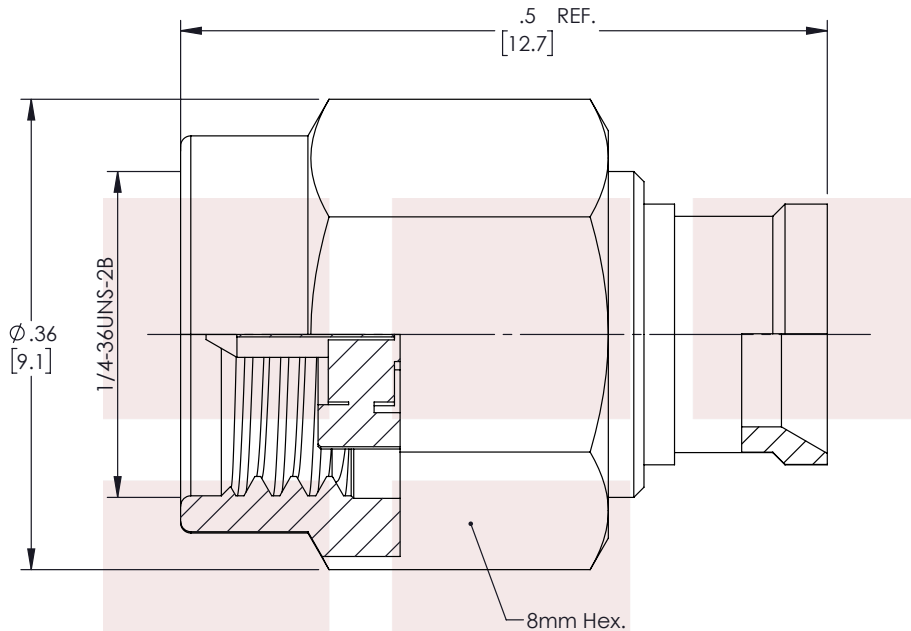
SMA Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable FMCN1939](#)

URL: <https://www.fairviewmicrowave.com/sma-male-fm-sr141tb-fm-sr141tbj-fm-sr141cu-str-fm-sr141cutn-coil-connector-fmcn1939-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 | 8/17/2022 | AGANWANI |



THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

TITLE

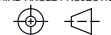
SMA Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable

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

| TOLERANCES:       |             | CABLE LENGTH (L) TOLERANCES:                |  |
|-------------------|-------------|---------------------------------------------|--|
| .X = ±.2 [5.08]   | FRACTIONS   | L ≤ 12 [305] = +1 [25] / -0                 |  |
| .XX = ±.02 [51]   | ± 1/32      | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0     |  |
| .XXX = ±.005 [13] | ANGLES ± 1° | 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.

THIRD-ANGLE PROJECTION



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY  | ITEM NO. | REV |
|------|-----------|-----------|----------|-----|
| A    | 3FKR5     | PSRINIVAS | FMCN1939 | A   |

T-Rev D

## SMA Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable

SMA male connector with solder/solder attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR and FM-SR141CUTN-COIL, part number FMCN1939, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 26 GHz. The SMA male connector also has low passive intermodulation (PIM) of -155 dBc.

Fairview's SMA male connector FMCN1939 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  |     | 26   | GHz   |
| Passive Intermodulation |     |     | -155 | dBc   |
| DWV (AC)                |     |     | 750  | Vrms  |

### Performance by Frequency

| Description | F1       | F2       | F3 | F4 | F5 | Units |
|-------------|----------|----------|----|----|----|-------|
| Freq. Range | DC to 18 | 18 to 26 |    |    |    | GHz   |
| VSWR, Max   | 1.25:1   | 1.35:1   |    |    |    |       |

### Mechanical Specifications

|            |                    |
|------------|--------------------|
| Size       |                    |
| Length     | 0.5 in [12.7 mm]   |
| Width/Dia. | 0.36 in [9.14 mm]  |
| Height     | 0.36 in [9.14 mm]  |
| Weight     | 0.006 lbs [2.72 g] |

### Material Specifications

| Description  | Material | Plating   |
|--------------|----------|-----------|
| Contact      | Brass    | Silver    |
| Insulation   | PTFE     |           |
| Body         | Brass    | Tri-Metal |
| Coupling Nut | Brass    | Tri-Metal |



### Configuration:

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR-141CUTN-COIL Interface Type
- Solder/Solder Attachment
- Low PIM Design

### Features:

- Operating Frequency of 26 GHz Max.
- PIM levels better than -155 dBc
- Silver Plated Brass Contact

### Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

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](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Environmental Specifications

### Temperature

Operating Range -40 to +155 deg C

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

## Plotted and Other Data

Notes:

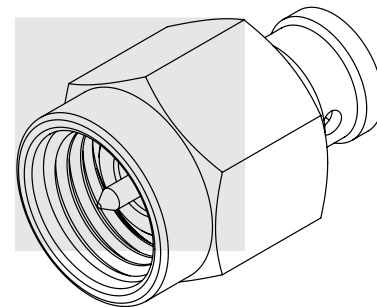
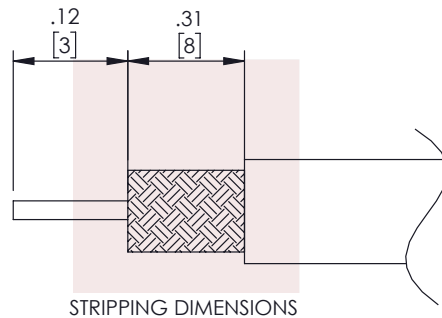
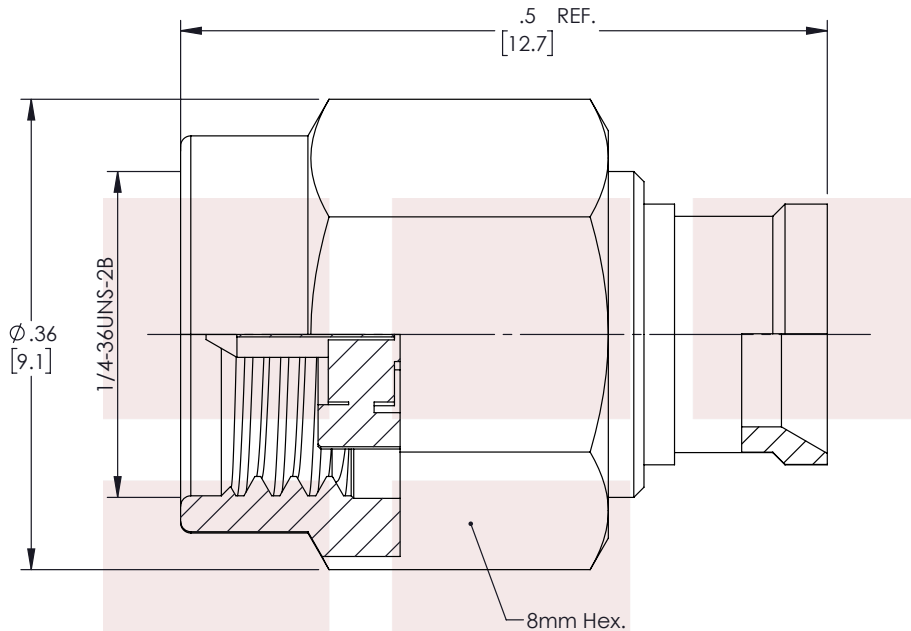
SMA Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable FMCN1939](#)

URL: <https://www.fairviewmicrowave.com/sma-male-fm-sr141tb-fm-sr141tbj-fm-sr141cu-str-fm-sr141cutn-coil-connector-fmcn1939-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 | 8/17/2022 | AGANWANI |



THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

TITLE

SMA Male Low PIM Connector Solder Attachment for FM-SR141TB, FM-SR141TBJ, FM-SR141CU-STR, FM-SR141CUTN-COIL Cable

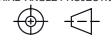
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

|                   |             |                                             |
|-------------------|-------------|---------------------------------------------|
| .X = ±.2 [5.08]   | FRACTIONS   | L ≤ 12 [305] = +1 [25] / -0                 |
| .XX = ±.02 [51]   | ± 1/32      | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0     |
| .XXX = ±.005 [13] | ANGLES ± 1° | 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.

THIRD-ANGLE PROJECTION



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

|           |                    |                       |                      |          |
|-----------|--------------------|-----------------------|----------------------|----------|
| SIZE<br>A | CAGE CODE<br>3FKR5 | DRAWN BY<br>PSRINIVAS | ITEM NO.<br>FMCN1939 | REV<br>A |
|-----------|--------------------|-----------------------|----------------------|----------|

T-Rev D

## RG402 Type .141 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections

.141 diameter semi-rigid coaxial cable is the cable of choice for many RF and Microwave engineers. 0.141 cables sometimes referred to as RG402 based on the mil specification for semi-rigid cable of this diameter has a maximum operating frequency of 36 GHz. This form factor is widely used in the RF industry and many connector series and configurations are available for this cable. Because of the solid copper wall design the cable can be formed using proper tooling with a minimum inside bend radius of 1.50 inches.

### Electrical Specifications

| Description     | Min | Typ | Max   | Units |
|-----------------|-----|-----|-------|-------|
| Frequency Range | DC  |     | 36    | GHz   |
| Impedance       |     | 50  |       | Ohms  |
| DWV (AC)        |     |     | 5,000 | Vrms  |

### Performance by Frequency Band

| Description        | F1          | F2           | F3           | F4 | F5 | Units               |
|--------------------|-------------|--------------|--------------|----|----|---------------------|
| Frequency          | 1           | 10           | 20           |    |    | GHz                 |
| Attenuation, Typ   | 12<br>39.37 | 45<br>147.64 | 70<br>229.66 |    |    | dB/100ft<br>dB/100m |
| Power In (CW), Max | 450         | 120          | 70           |    |    | Watts               |

### Mechanical Specifications

Min. Bend Radius (Installation) 0.15 in [3.81 mm]

### Construction Specifications

| Description     | Material and Plating      | Diameter           |
|-----------------|---------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver | 0.036 in [0.91 mm] |
| Conductor Type  | Solid                     |                    |
| Dielectric      | PTFE                      | 0.117 in [2.97 mm] |
| Outer Conductor | Copper, Bare              | 0.141 in [3.58 mm] |
| Jacket          | Tan                       |                    |

### Environmental Specifications

#### Temperature

Operating Range -55 to +125 deg C

### Compliance Certifications (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant Yes  
 REACH Compliant 12/17/2014

### Configuration:

- Semi-Rigid Cable

### Features:

- Silver Plated Copper Clad Steel center conductor
- PTFE dielectric material
- Bare Copper Outer Conductor
- Operating to 36 GHz
- Minimum inside bend radius of 1.50 inches
- ROHS compliant

### Applications:

- RF and Microwave Cable Assemblies to 36 GHz
- Preformed cable assemblies to insure fit and layout
- Test Equipment port jumpers

Fairview Microwave  
 1130 Junction Dr. #100  
 Allen, TX 75013  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Plotted and Other Data

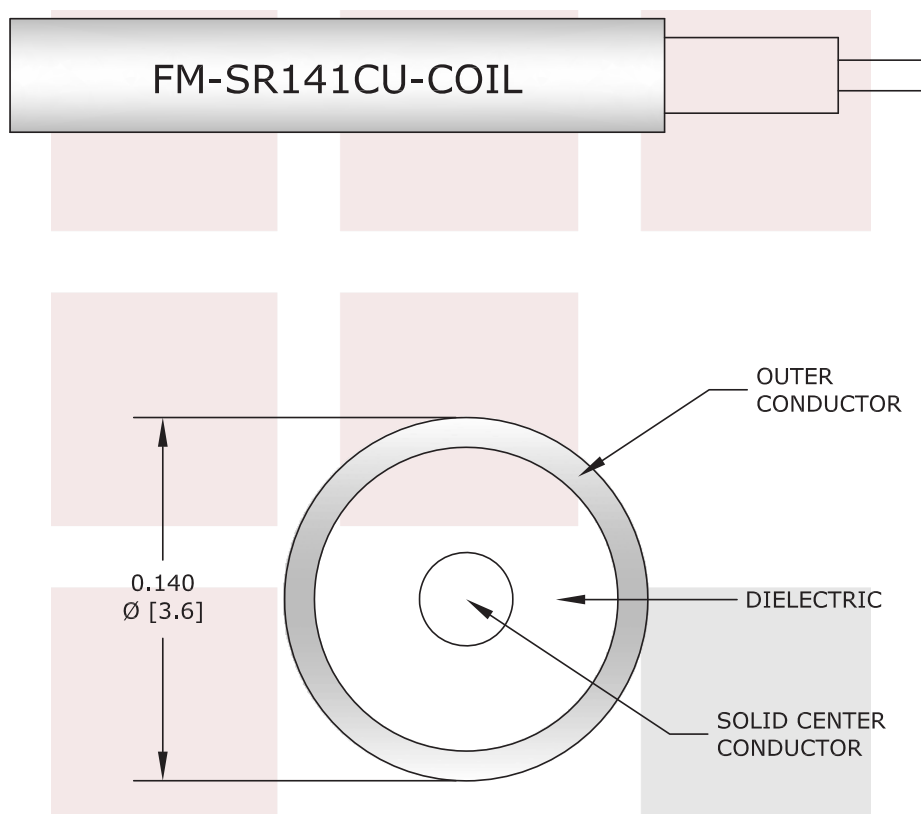
Notes:

RG402 Type .141 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RG402 Type .141 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections FM-SR141CU-COIL](http://www.fairviewmicrowave.com/rg402-type-.141-semi-rigid-coax-cable-copper-fm-sr141cu-coil-p.aspx)

URL: <http://www.fairviewmicrowave.com/rg402-type-.141-semi-rigid-coax-cable-copper-fm-sr141cu-coil-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.



|                                                                                                      |                           |                                                                                                                                                                                     |                    |           |      |
|------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|------|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM                          |                           | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |                    |           |      |
| TITLE<br>RG402 Type .141 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Coiled Sections | DWG NO<br>FM-SR141CU-COIL |                                                                                                                                                                                     | CAGE CODE<br>3FKR5 |           |      |
|                                                                                                      | CAD FILE<br>012716        | SHEET                                                                                                                                                                               | SCALE<br>N/A       | SIZE<br>A | 2233 |