

RA 7/16 DIN Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF Cable

Times Microwave Systems Connector Specification

RA 7/16 DIN male connector with solder/solder attachment for TFT-402 and TFT-402-LF, part number TC-402-716M-RA-LP, from Fairview Microwave is in-stock and ships same day. This 7/16 DIN male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The 7/16 DIN male connector also has low passive intermodulation (PIM) of -160 dBc. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA 7/16 DIN male connector TC-402-716M-RA-LP 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		6	GHz
VSWR			1.3:1	
Insertion Loss			0.12	dB
Passive Intermodulation			-160	dBc
Operating Voltage (DC)			1,000	Vdc
Inner Cond. DC Resistance			0.4	mOhms
Outer Cond. DC Resistance			1.5	mOhms
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
Insertion Loss is $0.1 * \sqrt{f(\text{GHz})}$

Mechanical Specifications

Size	
Length	1.377 in [34.98 mm]
Width/Dia.	1.25 in [31.75 mm]
Mating Torque	265 in-lbs [29.95 Nm]

Material Specifications

Description	Material	Plating
Contact	Brass	Silver 200 µin
Insulation	PTFE	
Body	Brass	Tri-Metal 100 µin
Coupling Nut	Brass	Tri-Metal 100 µin



Configuration:

- 7/16 DIN Male Connector
- 50 Ohms
- Right Angle Body Geometry
- TFT-402, TFT-402-LF Interface Type
- Solder/Solder Attachment
- Low PIM Design

Features:

- Operating Frequency of 6 GHz Max.
- Good VSWR of 1.3:1
- PIM levels better than -160 dBc
- Silver Plated Brass Contact
- 200 µin contact plating

Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications
- Distributed Antenna Systems (DAS)

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Environmental Specifications

Temperature

Operating Range

-55 to +155 deg C

Shock

US MIL-STD 202, Meth. 213, Cond. I

Vibration

US MIL-STD 202, Meth. 204, Cond. B

Thermal Shock

US MIL-STD 202, Meth. 107, Cond. B

Environmental Specification Notes:

Weather Standard: TEC 60068 55/155/56

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

Plotted and Other Data

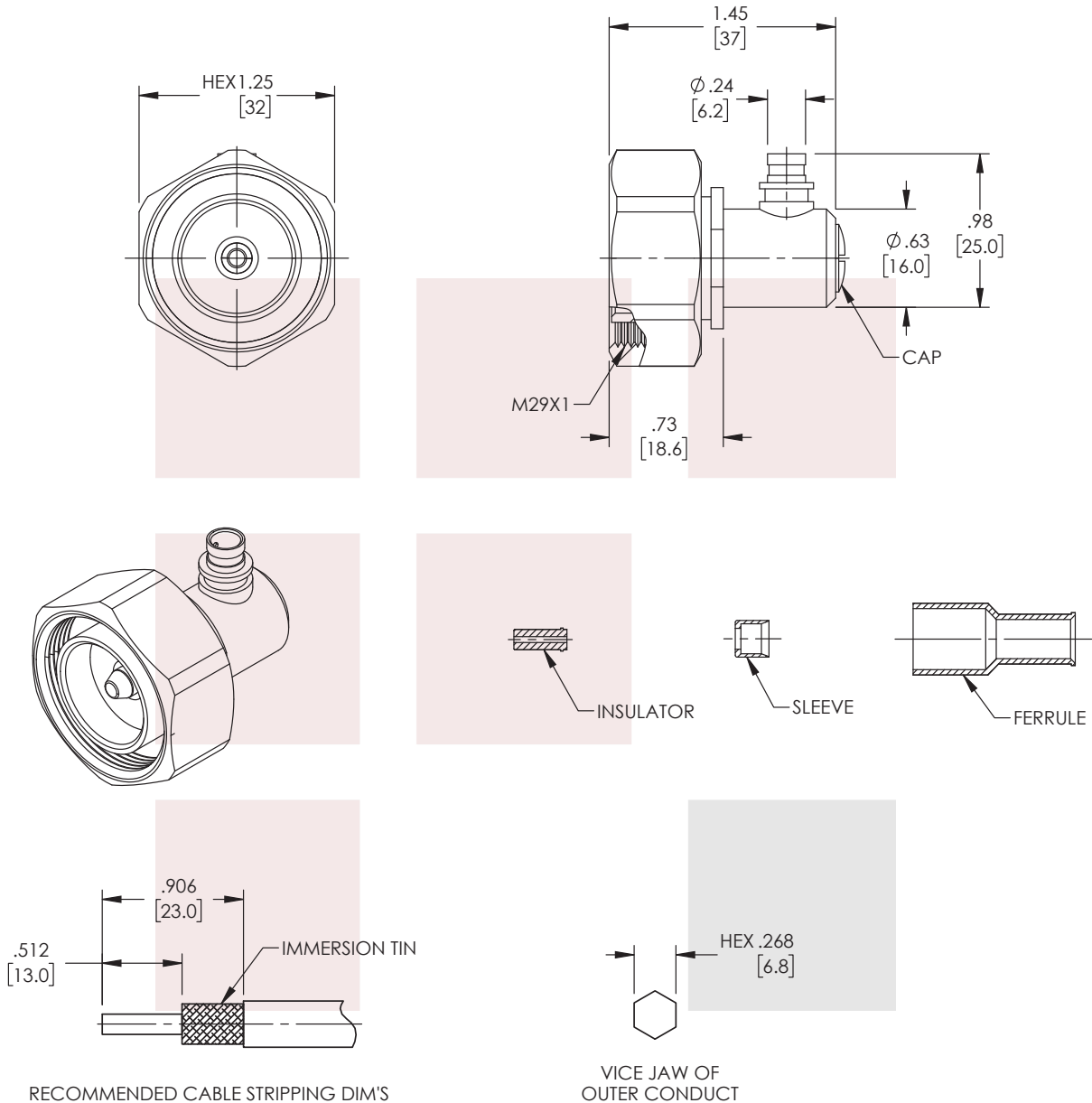
Notes:

RA 7/16 DIN Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF 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: [RA 7/16 DIN Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF Cable TC-402-716M-RA-LP](#)

URL: <https://www.fairviewmicrowave.com/7-16-din-male-tft-402-connector-tc-402-716m-ra-lp-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.



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TITLE

RA 7/16 DIN Male Low PIM Connector Solder
Attachment for TFT-402, TFT-402-LF Cable

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

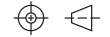
TOLERANCES:

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

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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DESIGN IN THIS DOCUMENT
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SHEET 1 OF 1

SCALE

1:1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE
A

CAGE CODE
3FKR5

DRAWN BY
DMAY

ITEM NO.
TC-402-716M-RA-LP

REV
A

T-Rev.D