

7/16 DIN Male Low PIM Connector Solder Attachment for SPP-500-LLPL, SPO-500, SPF-500 Cable

Times Microwave Systems Connector Specification

7/16 DIN male connector with solder/solder attachment for Times' SPP-500-LLPL, SPO-500 and SPF-500, part number TC-500-716M-LP, from Times Microwave offered by 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 excellent VSWR of 1.25:1. The 7/16 DIN male connector also has low passive intermodulation (PIM) of -160 dBc.

Times Microwave's 7/16 DIN male connector TC-500-716M-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			1.25:1	
Insertion Loss			0.25	dB
Passive Intermodulation			-160	dBc
Operating Voltage (DC)			2,500	Vdc
Insulation Resistance	10,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 3	3 to 6				GHz
VSWR, Max	1.1:1	1.25:1				

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

Mechanical Specifications

Size	
Length	0.992 in [25.2 mm]
Width/Dia.	1.25 in [31.75 mm]
Mating Torque	221.27 in-lbs [25.00 Nm]

Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Silver 200 µin
Insulation	PTFE	



Configuration:

- 7/16 DIN Male Connector
- 50 Ohms
- Straight Body Geometry
- SPP-500-LLPL, SPO-500, SPF-500 Interface Type
- Solder/Solder Attachment
- Low PIM Design

Features:

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.25:1
- PIM levels better than -160 dBc
- Silver Plated Phosphor Bronze Contact
- 200 µin contact plating

Applications:

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

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

Body	Brass	Tri-Metal 80 µin
Coupling Nut	Brass	Tri-Metal 80 µin
Gasket	Silicone Rubber	

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

Shock

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

Vibration

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

Thermal Shock

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

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

Plotted and Other Data

Notes:

7/16 DIN Male Low PIM Connector Solder Attachment for SPP-500-LLPL, SPO-500, SPF-500 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: [7/16 DIN Male Low PIM Connector Solder Attachment for SPP-500-LLPL, SPO-500, SPF-500 Cable TC-500-716M-LP](#)

URL: <https://www.fairviewmicrowave.com/7-16-din-male-connector-tc-spo500-716m-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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/5/2020	S.ELLIS

STRIPPING DIMENSIONS

HEAT SHRINK TUBE

NOTES:

- CABLE ATTACHMENT:
 - OUTER: SOLDER.
 - INNER: SOLDER.

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<p>Fairview Microwave an INFINIT® brand</p> <p>TITLE</p> <p>7/16 DIN Male Low PIM Connector Solder Attachment for SPP-500-LLPL, SPO-500, SPF-500 Cable</p>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: CABLE LENGTH (L) TOLERANCES: .X = ±.2 [5.08] L ≤ 12 [305] = +1 [25] / -0 .XX = ±.02 [.51] 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 .XXX = ±.005 [.13] 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 FRACTIONS 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 ± 1/32 300 [7620] < L = +5%L / -0 ANGLES ± 1°	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
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SIZE A CAGE CODE 3FKR5 DRAWN BY K.DANG ITEM NO. TC-500-716M-LP REV A		

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