

## 4.3-10 Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF



### TCP-400-4310MC-LP

#### Configuration

- 4.3-10 Male Connector
- IEC-61169-54
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF, LMR-LW400
- 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 minimum contact plating

#### Applications

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

#### Description

4.3-10 Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF and LMR-LW400 Cable, part number TCP-400-4310MC-LP, from Fairview Microwave is in-stock and ships same day. This 4.3-10 male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The 4.3-10 male connector also has low passive intermodulation (PIM) of -160 dBc.

Fairview's 4.3-10 male connector TCP-400-4310MC-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	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Insertion Loss			0.245	dB
Passive Intermodulation			-160	dBc
Impedance		50		Ohms

#### Mechanical Specifications

##### Size

Length	1.632 in [41.45 mm]
Width	0.866 in [22 mm]
Height	0.866 in [22 mm]
Weight	0.12 lbs [54.43 g]
Mating Cycles	500 Cycles
Mating Torque	44.25 in-lbs [[5.00 Nm]]

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## TCP-400-4310MC-LP

### Material Specifications

Description	Material	Plating
Contact	Brass	Silver 200 µin minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 80 µin minimum
Retaining Ring	Brass	Silver 200 µin minimum
Gasket	Silicone	

### Environmental Specifications

#### Temperature

Operating Range

-40 to +125 deg C

Shock

MIL-STD-202G, Meth.213, Con.I

Vibration

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

Thermal Shock

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

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

### Plotted and Other Data

Notes:

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**TCP-400-4310MC-LP**

**Assembly Instruction**

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SYMB	REVISION DESCRIPTION	ID/FM	DATE	APPO	APPO
A	RELEASED FOR PRODUCTION	Joklen	2018/12/13	TZ	2018/12/13
A1	Change the outer ring diam to 10mm	Patrick	2018/12/13	Joklen	2018/12/13
B	Added thread on contact pin	Monica	2018/11/13	Tony Z	2018/11/13
C	ECN#20242001	Monica	2020/03/24	Tony Z	2020/03/24

**Notes:**  
1. Centre pin crimp size Hex, 3.3x2.70mm(0.13"x0.11"). Contact pin retention force ≥10 lbs

**I. MATERIALS & FINISHES**

Components	Materials	Finishes	Thk. (μ")
Body	Brass	Albaloy	80
Center Cont.	Brass	Silver	200
Insulator	PTFE	-	-
Gasket	Silicone	Red	-
Clamp 1	Brass	Silver	200
Clamp 2	Phosphor Bronze	Albaloy	80
Ring	Brass	Silver	200
Barrel/Ferrule	Brass	Albaloy	80

**II. ELECTRICAL PROPERTIES**

Impedance (Ω):	50
Frequency Range (GHz):	DC to 6 GHz
Working Voltage (V):	1000
Insulation Resistance (MΩ):	≥5000
VSWR:	≤1.3
Insertion Loss(dB, f/GHz):	-0.1x √f
Im3 (2x43 dB):	≤160dBc(2x43dB)

**III. ENVIRONMENT PROPERTIES**

Temperature Range:	-40°C→+125°C
Thermal Shock:	MIL-STD 202G, Meth.107, Cond.B
Vibration:	MIL-STD 202G, Meth.204, Cond.B
Shock:	MIL-STD 202G, Meth.213, Cond 1
Climatic Class:	IEC 60068 55/155/21
RoHS:	Compliant

**IV. MECHANICAL PROPERTIES**

Center Cont.:	Crimp/Solder
Outer Cont.:	Clamp
Coupling Nut Torque (N.m):	5
Clamp Retention Force (N):	400
Durability (cycles):	500

**Deburring:**  
Recommended cable stripping dimensions connector adds: 15.5mm

Compatible with Standard: IEC 61169-54

MATL:	UNLESS OTHERWISE SPECIFIED	DFTM:	Joklen
DATE:	2018/12/13		
CHRD:	KG	<b>TCP-400-4310MC-LP</b>	
DATE:	2018/12/13	4.3-10 Male (Plug) Infield Installation Straight Connector for TCOM-400 Cable	
APPD:	TZ		
SCALE:	DO NOT SCALE DRAWING	CODE IDENT:	68999
DATE:	2018/12/13	REV:	1 OF 1
REV:	1 OF 1	REV:	3190-6298
REV:	1 OF 1	REV:	B

4.3-10 Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF 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: [4.3-10 Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF TCP-400-4310MC-LP](https://www.fairviewmicrowave.com/4.3-10-male-tcom-400-tcom-400-fr-lmr-400-lmr-400-db-lmr-400-fr-lmr-400-uf-lmr-lw400-connector-tcp-400-4310mc-lp-p.aspx)

URL: <https://www.fairviewmicrowave.com/4.3-10-male-tcom-400-tcom-400-fr-lmr-400-lmr-400-db-lmr-400-fr-lmr-400-uf-lmr-lw400-connector-tcp-400-4310mc-lp-p.aspx>

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# TCP-400-4310MC-LP CAD Drawing

4.3-10 Male Low PIM Connector Clamp/Solder Attachment for TCOM-400, TCOM-400-FR, LMR-400, LMR-400-DB, LMR-400-FR, LMR-400-UF

