

4.3-10 Male Low PIM Connector Clamp/Solder Attachment for TCOM-240, TCOM-240-FR, LMR-240, LMR-240-DB, LMR-240-FR, LMR-240-UF, LMR-LW240



TCP-240-4310MC-LP

Configuration

- 4.3-10 Male Connector
- IEC-61169-54
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TCOM-240, TCOM-240-FR, LMR-240, LMR-240-DB, LMR-240-FR, LMR-240-UF, LMR-LW240, PE-C240
- Low PIM Design

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- PIM levels lower 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

Pasternack's TCP-240-4310MC-LP , 4.3-10, Low PIM, Connector is part of our full line of RF components available for same-day shipping. Our 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 of -160 dBc.

Our 4.3-10 male connector TCP-240-4310MC-LP datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship 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
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.51 in [38.35 mm]
Width	0.866 in [22 mm]
Height	0.866 in [22 mm]
Weight	0.11 lbs [49.9 g]
Mating Cycles	500 Cycles
Mating Torque	44.25 in-lbs [[5.00 Nm]]

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for TCOM-240, TCOM-240-FR, LMR-240, LMR-240-
DB, LMR-240-FR, LMR-240-UF, LMR-LW240



TCP-240-4310MC-LP

Material Specifications

Description	Material	Plating
Contact	Brass	Silver 200 µin minimum
Insulation	PTFE	
Body	Brass	Tri-Metal 100 µin minimum
Coupling Nut	brass	Tri-Metal 100 µin minimum
Retaining Ring	Brass	Silver 200 µin minimum
Gasket	Silicone	

Environmental Specifications

Temperature

Operating Range

Shock

Vibration

Thermal Shock

-40 to +125 deg C

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

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

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

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

Plotted and Other Data

Notes:

4.3-10 Male Low PIM Connector Clamp/Solder Attachment for TCOM-240, TCOM-240-FR, LMR-240, LMR-240-DB, LMR-240-FR, LMR-240-UF, LMR-LW240



TCP-240-4310MC-LP

Assembly Instruction

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SYM	REVISION DESCRIPTION	DFTM	JOSLEN	APPRO	DATE
A	RELEASED FOR PRODUCTION	Joslen	2019/09/17	Monika	2019/09/17
B	ECN-202005001	Monika	2020/04/30	Tony Z	2020/04/30

Notes:

- Centre pin crimp size Hex, 2.15x3.0mm(0.085"x0.118"). Contactpin retention force ≥ 10 lbs

I. MATERIALS & FINISHES			
Components	Materials	Finishes	Thk. (μ m)
Body	Brass	Aballoy	100
Coupling Nut	Brass	Aballoy	100
Contact Pin	Brass	Silver	200
Clamp / Ring	Brass	Silver	200
Clamp2	Phosphor Bronze	Aballoy	100
Insulator	PTFE	-	-
Gasket	Silicone	Red	-

II. ELECTRICAL PROPERTIES	
Impedance:	50 Ω
Frequency Range:	DC to 8 GHz
Dielectric Withstanding Voltage:	1000 V rms
Insulation Resistance:	≥ 5000 M Ω
VSWR:	≤ 1.30
Insertion Loss:	$\leq 1.1 \sqrt{f(\text{GHz})}$ dB
PIM(dBc: 2x-43dBm):	≤ -100

III. ENVIRONMENTAL PROPERTIES	
Temperature Range:	-40°C to +125°C
Thermal Shock:	MIL-STD-202, Meth.107, Cond. B
Vibration:	MIL-STD-202, Meth.204, Cond. B
Shock:	MIL-STD-202, Meth.213, Cond. I
Climate Class:	IEC 60068 55/125/21
Rohs:	Compliant

IV. MECHANICAL PROPERTIES	
Center Contact:	Crimp/Solder
Outer Contact:	Solder
Coupling Nut Torque:	8 N.m
CR-Connector Retention Force:	250N
Durability:	500 Cycles

RECOMMENDED CABLE STRIPPING DIM'S
Connector Adds: 15.00 mm(0.591")

Interface Compatible with Standard:
IEC-61169-54

UNLESS OTHERWISE SPECIFIED		DFTM	Joslen
DATE	2019/09/17		
CHK'D	Patrick		
DATE	2019/09/17		
APP'D	Monika		

T		TIMES	
MICROWAVE SYSTEMS		An Airspeed Company	
ALL DIMENSIONS ARE IN mm MACHINED SURFACES FINISH 1.6 RMS MAX. REMOVE ALL BURRS 0.15X45° MAX. BREAK MACHINE CORNERS 0.15X45° D MAX. FILLET R TOLERANCES ON DECIMALS XX ±0.15 XX ±0.1 ANGLES 12° FRACTIONS ± 0.1A		TOP-240-4310MC-LP	
Straight Connector for TC0M-240 Cable		4-3-10 Male (Plug) Inlet Installation	

SIZE	NO.	REV	DATE	2019/09/17	SHT	1/1	3190-6379	REV	B
DO NOT SCALE DRAWING									

4.3-10 Male Low PIM Connector Clamp/Solder Attachment for TCOM-240, TCOM-240-FR, LMR-240, LMR-240-DB, LMR-240-FR, LMR-240-UF, LMR-LW240 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

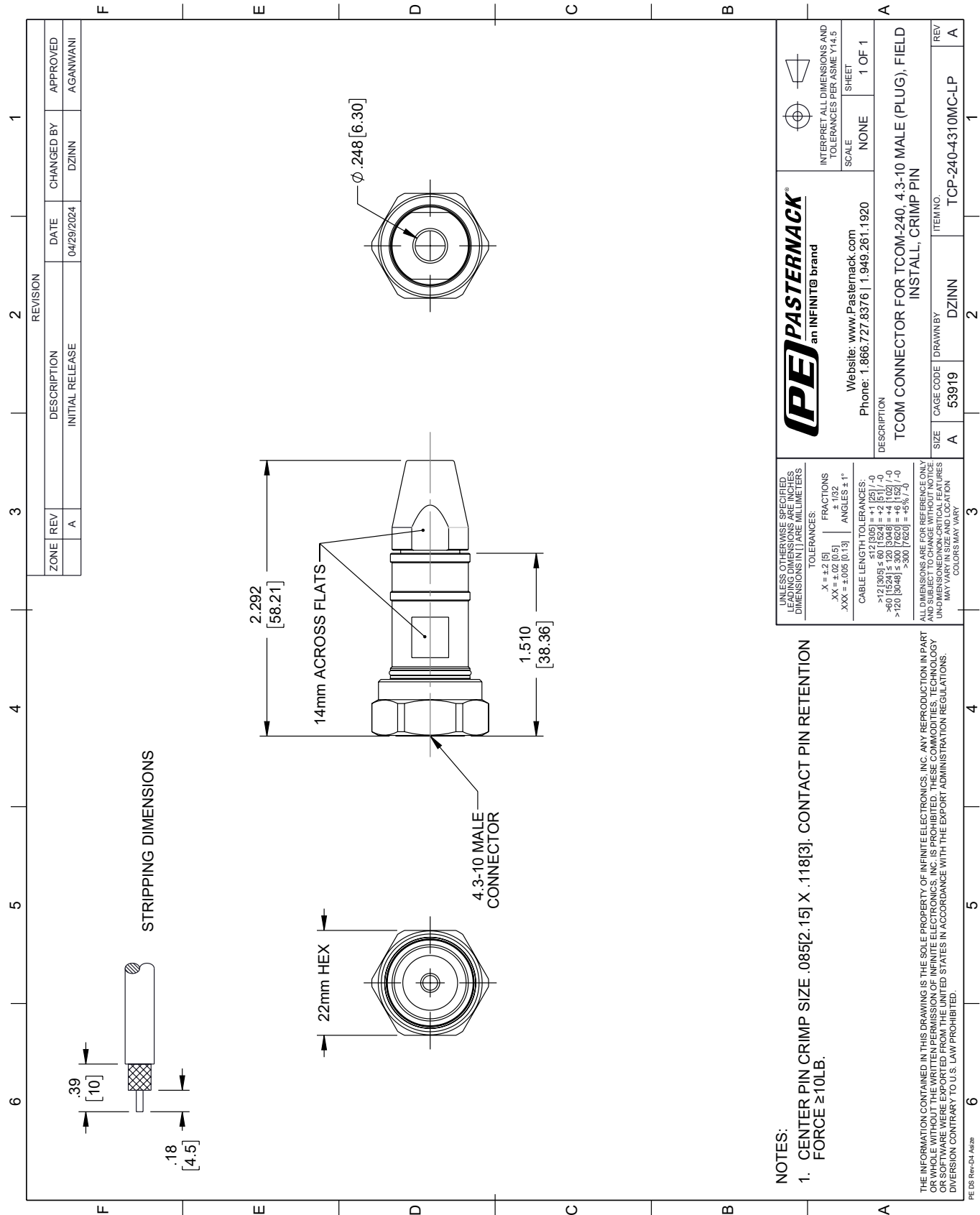
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male Low PIM Connector Clamp/Solder Attachment for TCOM-240, TCOM-240-FR, LMR-240, LMR-240-DB, LMR-240-FR, LMR-240-UF, LMR-LW240 TCP-240-4310MC-LP](#)

URL: <https://www.pasternack.com/4.3-10-male-tcom-240-tcom-240-fr-connector-tcp-240-4310mc-lp-p.aspx>

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TCP-240-4310MC-LP CAD Drawing

4.3-10 Male Low PIM Connector Clamp/Solder Attachment for TCOM-240, TCOM-240-FR, LMR-240, LMR-240-DB, LMR-240-FR, LMR-240-UF, LMR-LW240



NOTES:

1. CENTER PIN CRIMP SIZE .085[2.15] X .118[3]. CONTACT PIN RETENTION FORCE ≥ 10LB.

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