



## N Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF

### RF Connectors Technical Data Sheet



**TC-402-NM-LP**

#### Times Microwave Systems Connector Specification

##### Configuration

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TFT-402, TFT-402-LF
- 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 contact plating

##### Applications

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

##### Description

Pasternack's TC-402-NM-LP type N male connector with solder/solder attachment for TFT-402 and TFT-402-LF is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The type N male connector also has low passive intermodulation of -160 dBc.

Our type N male connector TC-402-NM-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          |         |         | 0.24    | dB    |
| Passive Intermodulation |         |         | -160    | dBc   |
| Operating Voltage (DC)  |         |         | 2,500   | Vdc   |
| Insulation Resistance   | 10,000  |         |         | MOhms |

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF TC-402-NM-LP](#)



## N Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF

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**TC-402-NM-LP**

#### Mechanical Specifications

##### Size

Length 1.043 in [26.49 mm]  
Width/Dia. 0.808 in [20.52 mm]

Mating Cycles 500 Cycles  
Mating Torque 15 in-lbs [1.70 Nm]  
Cable Retention Force 56 lbs [25.4 kg]

#### Material Specifications

| Description  | Material        | Plating             |
|--------------|-----------------|---------------------|
| Contact      | Brass           | Silver<br>200 µin   |
| Insulation   | PTFE            |                     |
| Body         | Brass           | Tri-Metal<br>80 µin |
| Coupling Nut | Brass           | Tri-Metal<br>80 µin |
| Gasket       | Silicone Rubber |                     |

#### Environmental Specifications

##### Temperature

Operating Range -40 to +125 deg C  
Shock MIL-STD 202G, Meth. 213, Cond. I  
Vibration MIL-STD 202G, Meth. 204, Cond. B  
Thermal Shock MIL-STD 202G, Meth. 107, Cond. B

Environmental Specification Notes:  
Climatic Class: IEC 60068 55/155/56

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF TC-402-NM-LP](#)



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### RF Connectors Technical Data Sheet



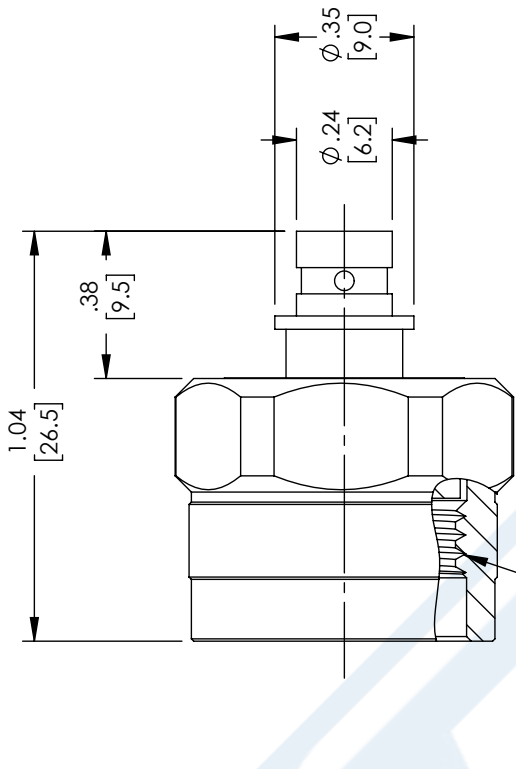
**TC-402-NM-LP**

N Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF 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: [N Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF TC-402-NM-LP](https://www.pasternack.com/n-male-tft-402-connector-tc-402-nm-lp-p.aspx)

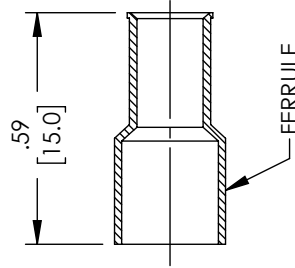
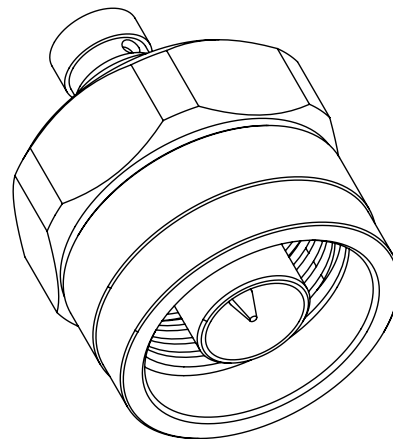
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

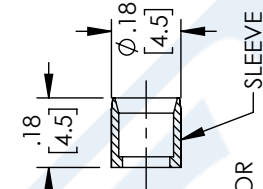


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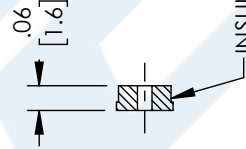
N PLUG



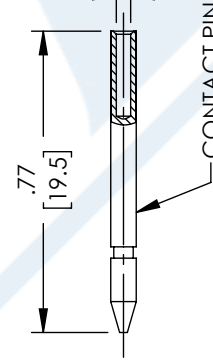
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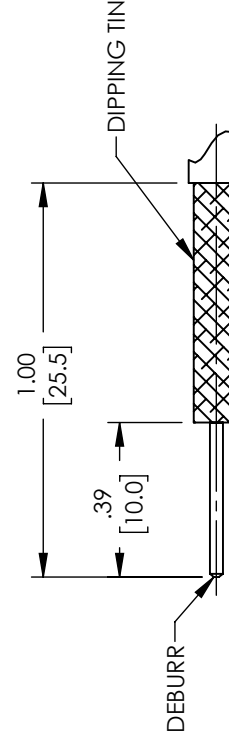
SLEEVE



INSULATOR



CONTACT PIN



RECOMMENDED CABLE STRIPPING DIM'S  
Connector adds: 17 mm



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SHEET 1 OF 1

SCALE 2:1

REV A



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ITEM NO. TC-402-NM-LP

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% / -0  
ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

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