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2.2-5 Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF

RF Connectors
Technical Data Sheet

TIMES MICROWAVE SYSTEMS

TC-402-225M-LP

Times Microwave Systems Connector Specification

Configuration

- 2.2-5 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 Beryllium Copper Contact
- 200 µin contact plating

Applications

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

Description

Pasternack's TC-402-225M-LP 2.2-5 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 2.2-5 male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The 2.2-5 male connector also has low passive intermodulation of -160 dBc.

Our 2.2-5 male connector TC-402-225M-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)			1,500	Vdc
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
Insertion Loss is 0.1*sqrt(FGHz)

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.2-5 Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF TC-402-225M-LP

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2.2-5 Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF

Mechanical Specifications

Size

Length	0.854 in [21.69 mm]
Width/Dia.	0.65 in [16.51 mm]
Mating Cycles	100 Cycles
Mating Torque	26 in-lbs [2.94 Nm]
Cable Retention Force	33 lbs [14.97 kg]

Material Specifications

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

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: 2.2-5 Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF TC-402-225M-LP

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2.2-5 Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF



RF Connectors
Technical Data Sheet

TIMES MICROWAVE SYSTEMS

TC-402-225M-LP

2.2-5 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.

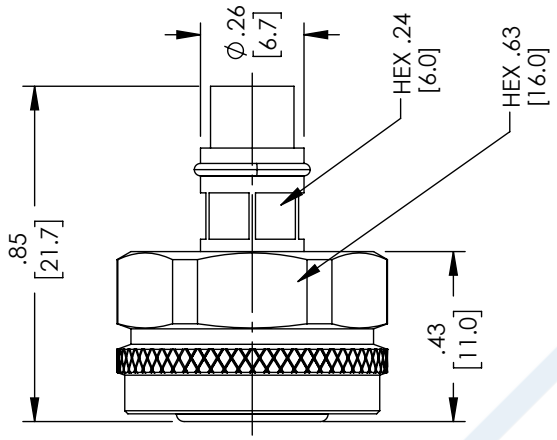
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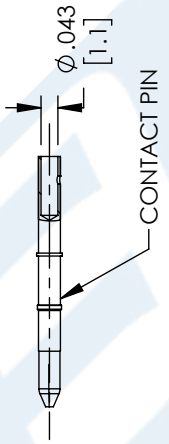
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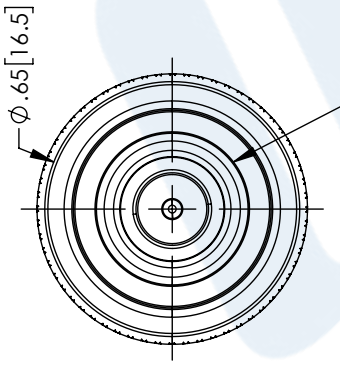
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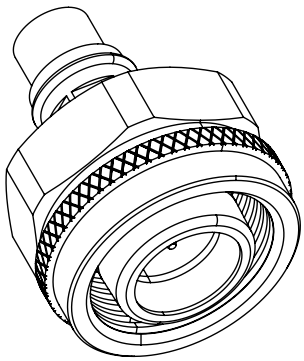
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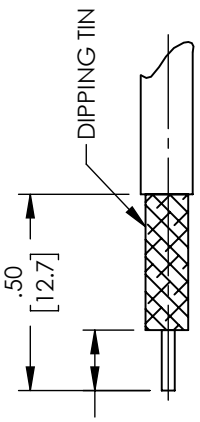
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RECOMMENDED CABLE STRIPPING DIM'S
Connector Adds: 15.7mm[0.618"]

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

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A	53919	DMAY	TC-402-225M-LP	A

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2.2-5 Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF

RF Connectors
Technical Data Sheet

TIMES MICROWAVE SYSTEMS

TC-402-225M-LP

Times Microwave Systems Connector Specification

Configuration

- 2.2-5 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 Beryllium Copper Contact
- 200 µin contact plating

Applications

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

Description

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Electrical Specifications

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Frequency Range	DC		6	GHz
VSWR			1.3:1	
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Passive Intermodulation			-160	dBc
Operating Voltage (DC)			1,500	Vdc
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
Insertion Loss is 0.1*sqrt(FGHz)

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2.2-5 Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF

Mechanical Specifications

Size

Length	0.854 in [21.69 mm]
Width/Dia.	0.65 in [16.51 mm]
Mating Cycles	100 Cycles
Mating Torque	26 in-lbs [2.94 Nm]
Cable Retention Force	33 lbs [14.97 kg]

Material Specifications

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

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Temperature

Operating Range	-40 to +125 deg C
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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:

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2.2-5 Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF



RF Connectors
Technical Data Sheet

TIMES MICROWAVE SYSTEMS

TC-402-225M-LP

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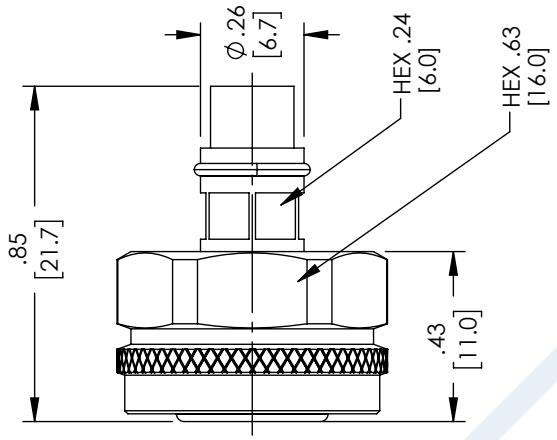
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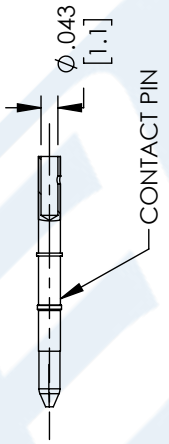
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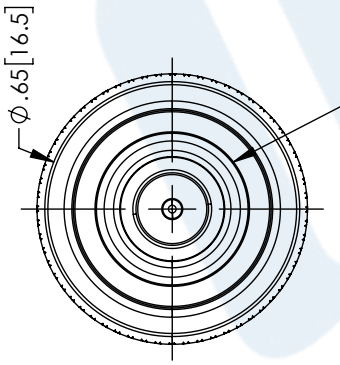
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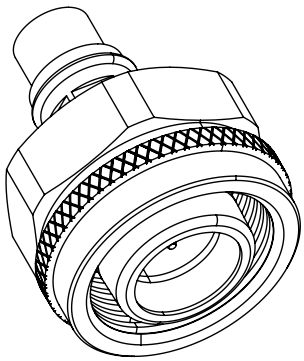
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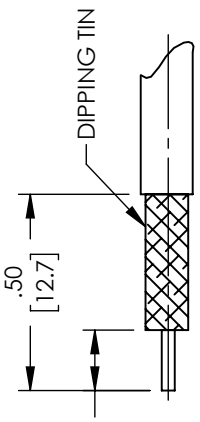
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Connector Adds: 15.7mm[0.618"]

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.XX = ± .02	[.51]	± 1/32
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Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket

RF Cables
Technical Data Sheet

TFT-5G-402

Times Microwave Systems Coax Cable Specification

Configuration

- Low PIM Flexible Cable
- 2 Shield(s)

Features

- PIM < -160 dBc
- UL910 Plenum Rated Cable
- Lightweight and Extremely Flexible
- Low Loss
- Good Shielding >80 dB
- UV Resistant Jacket

Applications

- Base Stations
- Antenna Pigtails
- Distributed Antenna Systems (DAS)
- Plenum Installations
- Small Cells
- Multi-Carrier Communication Systems

Description

TFT-5G-402 low pim flexible coax cable by Times Microwave is part of our full line of RF components available for same-day shipping. The TFT-5G-402 plenum rated coaxial cable features a taped PTFE dielectric, solid copper center conductor and a dual-braid outer conductor. These features combine to make the Times Microwave TFT-5G-402 an extremely flexible, low loss and low PIM coax cable that is well suited for Distributed Antenna Systems (DAS), plenum installations or small cells. The tough, FEP jacket provides moisture, UV protection and resistance to corrosive environments.

Our datasheet specifications and drawing with dimensions for Times Microwave TFT-5G-402 coax cable are shown below in this PDF. Whether the need is to provide a low PIM jumper connection, low PIM antenna pigtails or simply create a custom cable assembly configuration, Pasternack has the right TFT-5G-402 cable assemblies for the job.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
Velocity of Propagation		76		%
Shielding Effectiveness	80			dB
Passive Intermodulation			-160	dBc
Nominal Capacitance		26.7 [87.6]		pF/ft [pF/m]

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket TFT-5G-402

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Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket

RF Cables
Technical Data Sheet

TFT-5G-402

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	1.9	2.3	4.9	5.8	GHz
Attenuation, Typ	7.9	16.4	18.2	27	29.5	dB/100ft
	25.92	53.81	59.71	88.58	96.78	dB/100m
Input Power (CW), Max	430	200	180	120	110	Watts

Mechanical Specifications

Diameter	0.16 in [4.06 mm}
Weight	0.028 lbs/ft [0.04 kg/m]
Min. Bend Radius (Installation)	0.75 in [19.05 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.113 in [2.87 mm]
First Shield	Tin	0.121 in [3.07 mm]
Outer Conductor	Copper, Tin	0 in [0 mm]
Jacket	FEP, Blue	0.16 in [4.06 mm]

Environmental Specifications

Temperature

Operating Range	-55 to +150 deg C

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket TFT-5G-402

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Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket

RF Cables
Technical Data Sheet

TFT-5G-402

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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URL: https://www.pasternack.com/low-pim-flexible-tft-5g-402-fep-jacket-tin-outer-conductor-double-shielded-tft-5g-402-p.aspx

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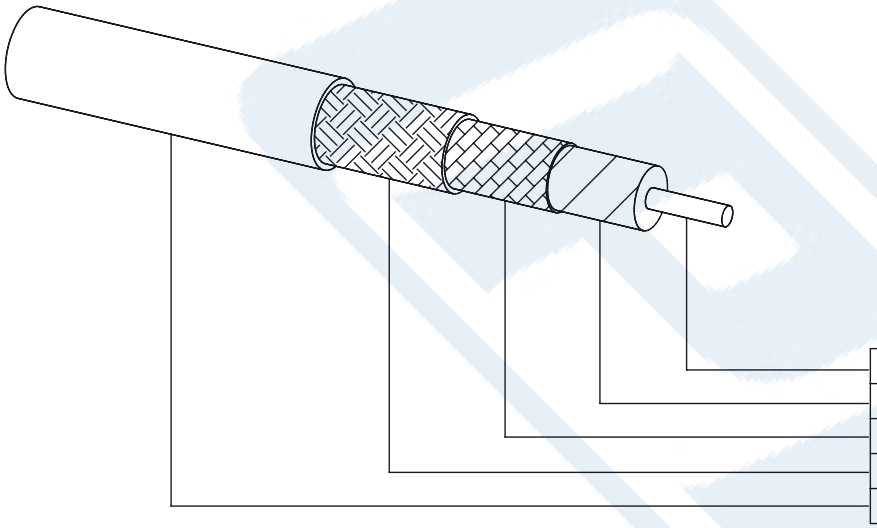
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TFT-5G-402 CAD Drawing

Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	09/13/2022	A. GANWANI



Center Conductor	.037 [0.94]	Bare Copper
Dielectric	.113 [2.87]	Taped PTFE
Shield	.121 [3.07]	Tin Plated Flat Braid
Outer Braid	.138 [3.51]	Tin Plated Copper Braid
Jacket	.160 [4.06]	Blue FEP

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DIMENSIONS IN [ ] ARE MILLIMETERS

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SHEET 1 OF 1

SCALE N/A

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