

# B2BYM-PI

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1.5-3.5 Male Straight B2B, Press-In Type on Filter

## Product Classification

**Product Type** Device connector

## General Specifications

**Body Style** Straight

**Inner Contact Attachment Method** Solder

**Inner Contact Plating** Silver

**Interface** 1.5-3.5 Male

**Mounting Angle** Straight

**Outer Contact Plating** Trimetal

## Dimensions

**Height** 7.8 mm | 0.307 in

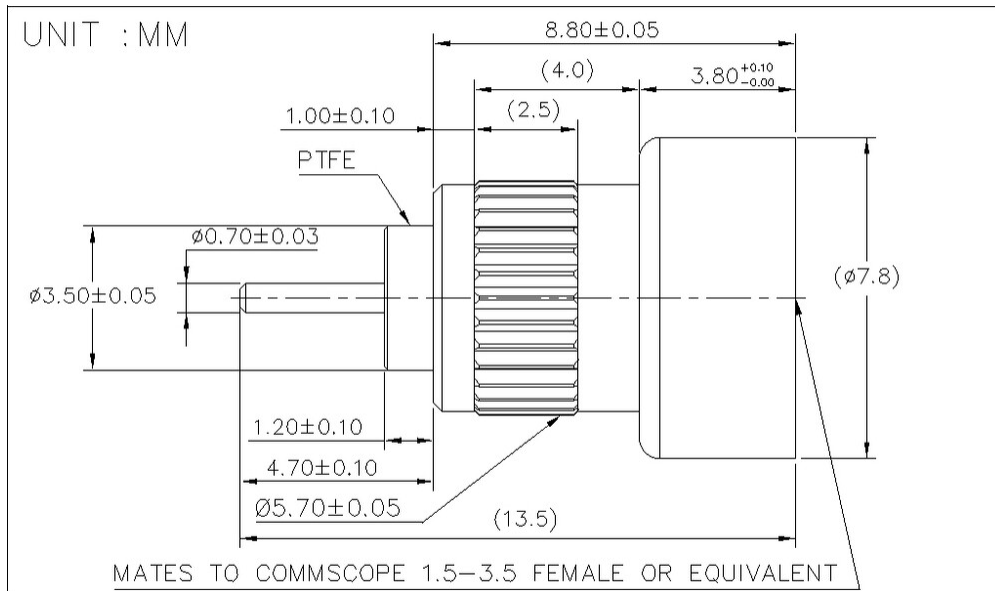
**Width** 7.8 mm | 0.307 in

**Length** 13.5 mm | 0.531 in

**Diameter** 7.8 mm | 0.307 in

## Outline Drawing

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## Electrical Specifications

|   |  |
|---|--|
| <b>3rd Order IMD at Frequency</b>           | -110 dBm @ 3500 MHz   -117 dBm @ 1800 MHz   -117 dBm @ 2600 MHz   -117 dBm @ 910 MHz |
| <b>3rd Order IMD Test Method</b>            | Two +43 dBm carriers   |
| <b>Insertion Loss, maximum</b>              | 0.1 dB   |
| <b>Connector Impedance</b>                  | 50 ohm   |
| <b>dc Test Voltage</b>                      | 1000 V   |
| <b>Inner Contact Resistance, maximum</b>    | 2 mOhm   |
| <b>Insulation Resistance, minimum</b>       | 5000 MOhm  |
| <b>Operating Frequency Band</b>             | 0 – 6000 MHz   |
| <b>Outer Contact Resistance, maximum</b>    | 2 mOhm   |
| <b>RF Operating Voltage, maximum (vrms)</b> | 500 V  |

## VSWR/Return Loss

| Frequency Band | VSWR  | Return Loss (dB) |
|----------------|-------|------------------|
| 450-2200 MHz   | 1.065 | 30.04            |
| 2200-3800 MHz  | 1.065 | 30.04            |

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|                      |       |       |
|----------------------|-------|-------|
| <b>3800–4200 MHz</b> | 1.083 | 27.99 |
| <b>4200–6000 MHz</b> | 1.222 | 20.01 |

## Mechanical Specifications

|                                     |                  |
|-------------------------------------|------------------|
| <b>Insertion Force</b>              | 15 N   3.372 lbf |
| <b>Interface Durability</b>         | 100 cycles       |
| <b>Interface Durability Method</b>  | IEC 61169-4:17   |
| <b>Mechanical Shock Test Method</b> | IEC 60068-2-27   |
| <b>Radial Float/Misalignment</b>    | 2.7 °            |

## Environmental Specifications

|   |                                       |
|---|---------------------------------------|
| <b>Operating Temperature</b>                      | -55 °C to +85 °C (-67 °F to +185 °F)  |
| <b>Storage Temperature</b>                        | -65 °C to +125 °C (-85 °F to +257 °F) |
| <b>Attenuation, Ambient Temperature</b>           | 20 °C   68 °F                         |
| <b>Average Power, Ambient Temperature</b>         | 40 °C   104 °F                        |
| <b>Average Power, Inner Conductor Temperature</b> | 100 °C   212 °F                       |
| <b>Corrosion Test Method</b>                      | IEC 60068-2-11                        |
| <b>Thermal Shock Test Method</b>                  | IEC 60068-2-14                        |
| <b>Vibration Test Method</b>                      | IEC 60068-2-6                         |

## Packaging and Weights

|                    |                   |
|--------------------|-------------------|
| <b>Weight, net</b> | 1.66 g   0.004 lb |
|--------------------|-------------------|