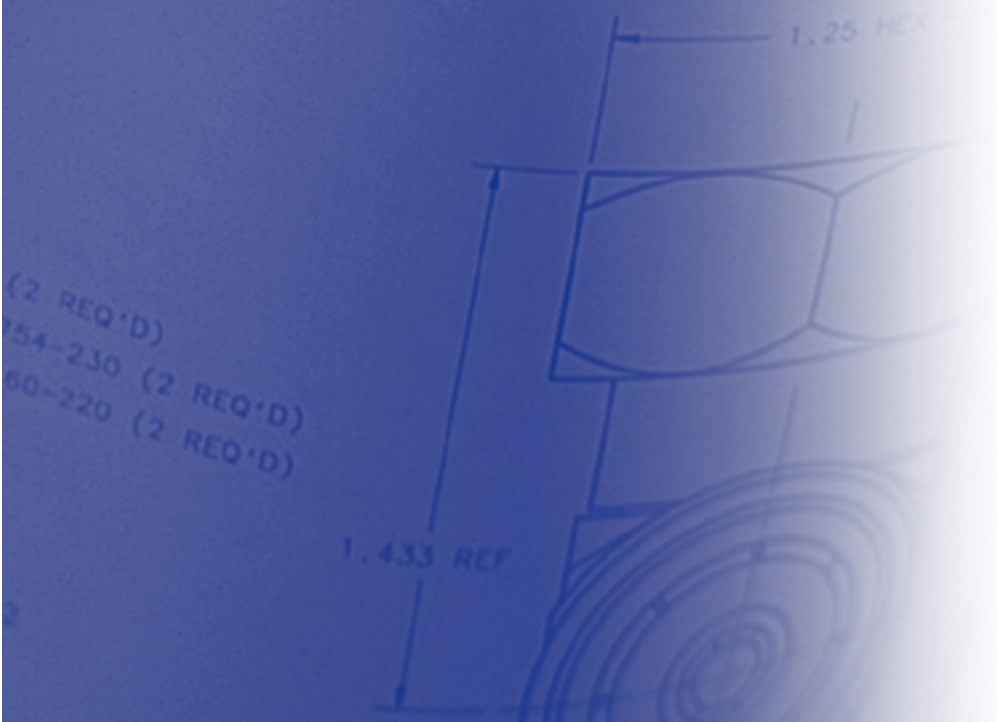
# Subminiature

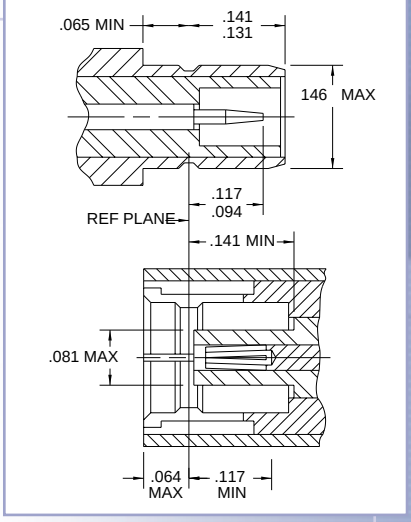
SMA
SMB/SMC
MCX/MMCX
BMA
2.92MM
1.0/2.3




*The Custom Interconnect Leader*

Subminiature

# The Custom Interconnect Leader




TRU Corporation subminiature SMB connectors offer a viable and economic alternative in applications where dense RF Interconnect packaging is critical. The SMB series features a fast and easy snap on coupling mechanism suitable for applications to 4 GHz. The screw on coupling also allows for extended frequency to 6 and 10 GHz.

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## ELECTRICAL

| | |
|---|---|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC to 4 GHz |
| Voltage Rating: | 335 volts rms |
| Dielectric Withstanding | 750 volts rms |
| Insulation Resistance: | 10,000 megohms |
| VSWR: | 1.35 max DC-4 GHz |

## MECHANICAL

| | |
|---|---|
| Mating Characteristics: | per MIL-STD-348 |
| Connector Durability: | 500 cycles min. |
| Cable Attachment: | Clamp/Crimp/Solder |

## ENVIRONMENTAL

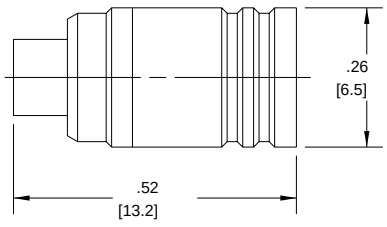
| | |
|---|---|
| Temperature Range: | -85°F to +329°F (-65°C to +165°C) |
| Vibration: | MIL-STD-202 Method 204 (Test Cond. B) |
| Shock: | MIL-STD-202 Method 213 (Test Cond. I) |
| Moisture Resistance: | MIL-STD-202 Method 106 |
| Corrosion (salt spray): | MIL-STD-202 Method 101 (Test Cond.B) |

## MATERIAL / FINISHES

| | |
|---|---|
| Body: | Brass, Gold Plated |
| Contacts (Inner): | |
| Female | Beryllium Copper, Gold Plated |
| Male | Brass, Gold Plated |
| Contacts (Outer): | Brass, Gold Plated |
| Insulators: | Teflon |
| Gaskets & Seals: | Silicone Rubber |

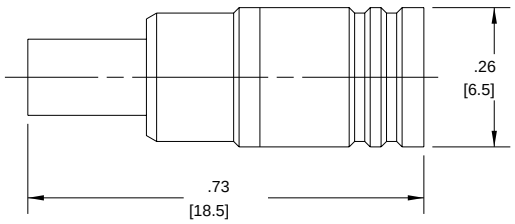
Features listed are typical and may vary depending upon cable selection and application.

### SMB Series Connector TRU-7344




*Direct solder jack for .085 S/R*

### SMB Series Connector TRU-7345




*Crimp jack for RD-316*

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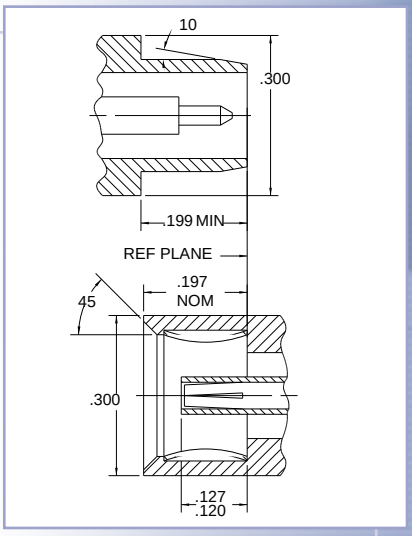


TRU Corporation BMA connectors provide a high integrity push-on interface, capable of withstanding both radial and axial misalignment. Ideally suited for dense modular connector arrays requiring fast and reliable matings / unmatings, the TRU BMA series feature multiple fixed and float mounting options. Similar line sizes to SMA's allow excellent performance to 18 GHz. Although direct solder designs for .085 and .141 semi-rigid cables are most popular, TRU offers design options for crimp attachments on flexible cables also.
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## ELECTRICAL

| | |
|---|---|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC to 18 GHz |
| Voltage Rating: | 335 volts rms |
| Dielectric Withstanding | 1,000volts rms |
| Insulation Resistance: | 5,000 megohms |
| VSWR: | 1.35 max DC-18 GHz |

## MECHANICAL

| | |
|---|---|
| Mating Characteristics: | per MIL-STD-348 |
| Connector Durability: | 500 cycles min. |
| Cable Attachment: | Crimp/Solder |

## ENVIRONMENTAL

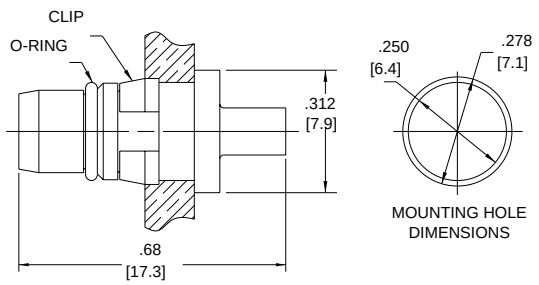
| | |
|---|---|
| Temperature Range: | (-65°C to +125°C) |
| Vibration: | MIL-STD-202 Method 204 (Test Cond. B) |
| Shock: | MIL-STD-202 Method 213 (Test Cond. I) |
| Moisture Resistance: | MIL-STD-202 Method 106 |
| Corrosion (salt spray): | MIL-STD-202 Method 101 (Test Cond.B) |

## MATERIAL / FINISHES

| | |
|---|---|
| Body: | Stainless Steelor or Gold Plated |
| Contacts (Inner): | |
| Female | Beryllium Copper, Gold Plated Brass, Gold Plated |
| Male | Stainless Steel, Passivated, |
| Contacts (Outer): | Gold Plated |
| Insulators: | Teflon |
| Gaskets & Seals: | Buna-N |

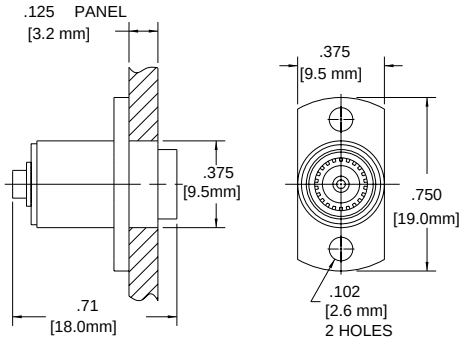
Features listed are typical and may vary depending upon cable selection and application.

### BMA Series Plug — TRU-7306




*Direct Solder Bulkhead Plug for .085 S/R*

### BMA Series Jack — TRU-7325




*Direct Solder Floating Rear Mount Jack for .085 S/R*

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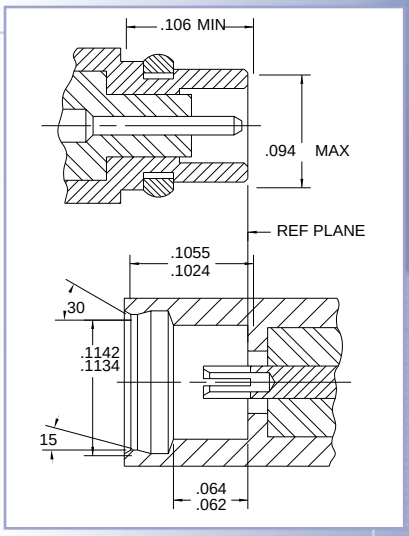


TRU Corporation MCX / MMCX series connectors are ideally suited to applications where space, size, weight are required without sacrificing durability and performance. Featuring a robust snap-on interface design and low profile, these connectors are ideal interconnects for wireless communications, automotive, GPS, and similar surface mount applications up to 6 GHz where space is at a premium. Robust design construction and careful material selection maintain reliable electrical-mechanical performance through 500 mating cycles typically found with larger interconnects.

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## ELECTRICAL

| | |
|---|---|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC to 6 GHz |
| Voltage Rating: | 170 volts rms |
| Dielectric Withstanding | 500 volts rms |
| Insulation Resistance: | 1000 megohms |
| VSWR: | 1.40 max DC-6 GHz |

## MECHANICAL

| | |
|---|---|
| Mating Characteristics: | CECC 22340 |
| Connector Durability: | 500 cycles min. |
| Cable Attachment: | Crimp/Solder |

## ENVIRONMENTAL

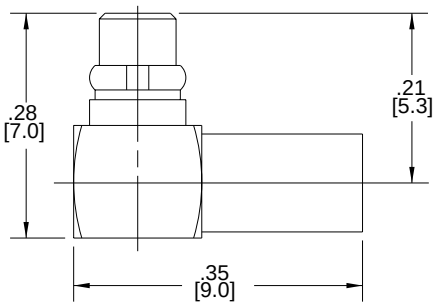
| | |
|---|---|
| Temperature Range: | -67°F to +311°F (-55°C to +155°C) |
| Vibration: | MIL-STD-202 Method 204 (Test Cond. B) |
| Shock: | MIL-STD-202 Method 213 (Test Cond. I) |
| Moisture Resistance: | MIL-STD-202 Method 106 |
| Corrosion (salt spray): | MIL-STD-202 Method 101 (Test Cond.B) |

## MATERIAL / FINISHES

| | |
|---|---|
| Body: | Brass, Gold Plated |
| Contacts (Inner): | |
| Female | Beryllium Copper, Gold Plated |
| Male | Brass, Gold Plated |
| Contacts (Outer): | Beryllium Copper, Gold Plated |
| Insulators: | Teflon |

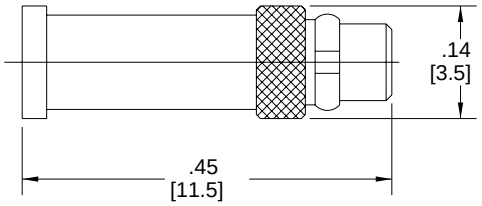
Features listed are typical and may vary depending upon cable selection and application.

### MMCX Series Connector — TRU-7359




*Solder R/A plug for .085 S/R*

### MMCX Series Connector — TRU-7358




*Crimp Plug For RG - 178 / 196*

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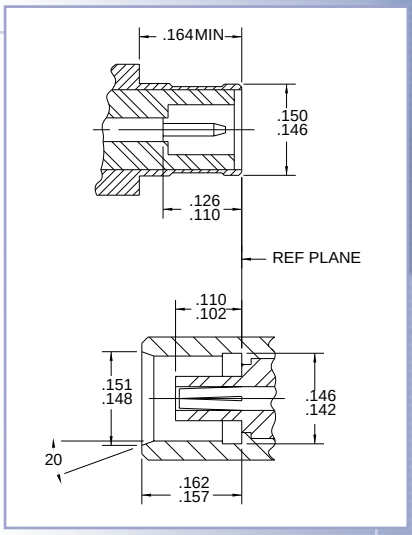


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## ELECTRICAL

| | |
|---|---|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC to 6 GHz |
| Voltage Rating: | 335 volts rms |
| Dielectric Withstanding | 750volts rms |
| Insulation Resistance: | 10,000 megohms |
| VSWR: | 1.35 max DC-6 GHz |

## MECHANICAL

| | |
|---|---|
| Mating Characteristics: | CECC 22220 |
| Connector Durability: | 500 cycles min. |
| Cable Attachment: | Crimp/Solder |

## ENVIRONMENTAL

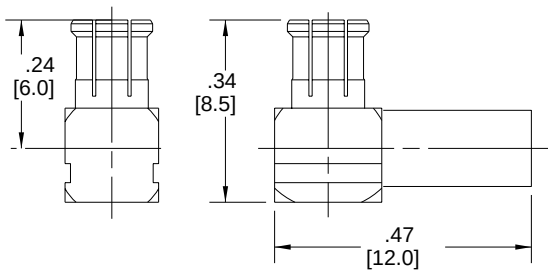
| | |
|---|---|
| Temperature Range: | -85°F to +329°F (-65°C to +165°C) |
| Vibration: | MIL-STD-202 Method 204 (Test Cond. B) |
| Shock: | MIL-STD-202 Method 213 (Test Cond. I) |
| Moisture Resistance: | MIL-STD-202 Method 106 |
| Corrosion (salt spray): | MIL-STD-202 Method 101 (Test Cond.B) |

## MATERIAL / FINISHES

| | |
|---|---|
| Body: | Brass, Gold Plated |
| Contacts (Inner): | |
| Female | Beryllium Copper, Gold Plated |
| Male | Brass, Gold Plated |
| Contacts (Outer): | Beryllium Copper, Gold Plated |
| Insulators: | Teflon |

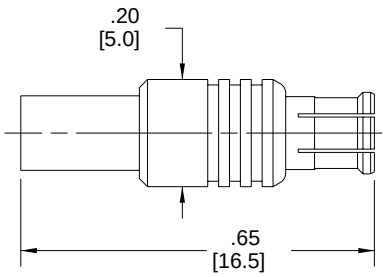
Features listed are typical and may vary depending upon cable selection and application.

### MCX Series Connector — TRU-7353




*R/A crimp plug for RG - 178 / 196*

### MCX Series Connector — TRU-7350




*Crimp Plug For RG - 178 / 196*

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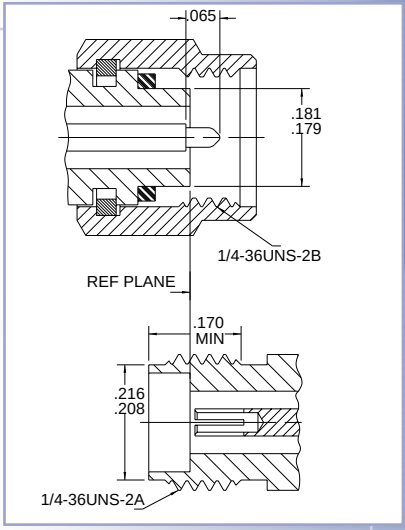


TRU Corporation 2.92mm connectors are precision interconnects featuring an air dielectric interface capable of mode-free operation to 40 GHz. A thick wall outer conductor and low profile contact pin in conjunction with it's threaded coupling, virtually eliminates the durability problems experienced with similarly sized air dielectric interfaces. TRU 2.92 mm series connectors are compatible with industry standard SMA, 3.5mm, and K interfaces, which provides the optimum flexibility and performance benefits.
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## ELECTRICAL

| | |
|---|---|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC to 40 GHz |
| Voltage Rating: | 250 volts rms |
| Dielectric Withstanding | 750 volts rms |
| Insulation Resistance: | 5,000 megohms |
| VSWR: | 1.45 max DC-40 GHz |

## MECHANICAL

| | |
|---|---|
| Mating Characteristics: | IEC 169-23 |
| Connector Durability: | 500 cycles min. |
| Cable Attachment: | Solder |

## ENVIRONMENTAL

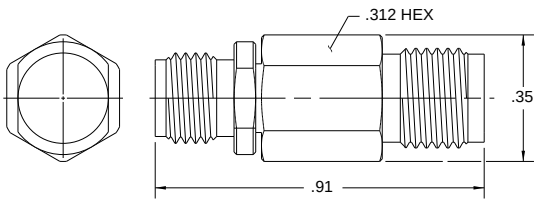
| | |
|---|---|
| Temperature Range: | -85°F to +194°F (-65°C to +90°C) |
| Vibration: | MIL-STD-202 Method 204 (Test Cond. B) |
| Shock: | MIL-STD-202 Method 213 (Test Cond. I) |
| Moisture Resistance: | MIL-STD-202 Method 106 |
| Corrosion (salt spray): | MIL-STD-202 Method 101 (Test Cond.B) |

## MATERIAL / FINISHES

| | |
|---|---|
| Body: | Stainless Steel, Passivated or Gold Plated |
| Contacts (Inner): | |
| Female | Beryllium Copper, Gold Plated |
| Male | Brass, Gold Plated |
| Contacts (Outer): | Stainless Steel, Gold Plated |
| Insulators: | Noryl PPO EN265 |
| Gaskets & Seals: | Silicone Rubber |

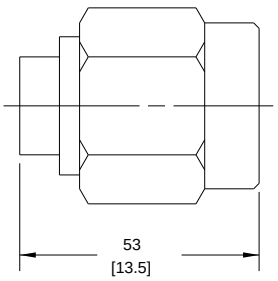
Features listed are typical and may vary depending upon cable selection and application.

### 2.92mm(k) Series Adapter — TRU-7404




*2.4mm Jack to 2.92mm Jack Adapter*

### 2.92mm(k) Series Adapter — TRU-7326




*Solder Plug for .085 S/R*

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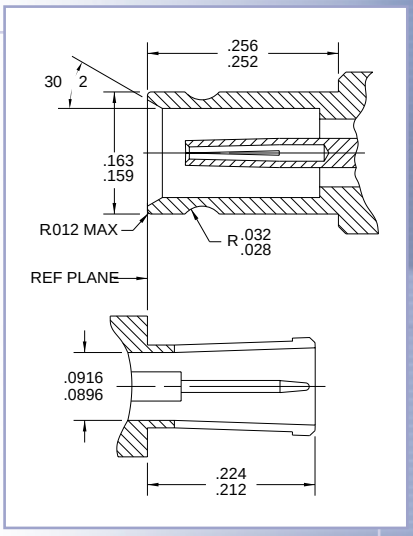


TRU Corporation 1.0/2.3 connectors provide the advantages of quick connect / disconnect interface with the versatility of multiple slide-on coupling mechanism designs to ensure fast, easy, and reliable interconnection. The small size and configuration are ideal for tight space requirements. Widely used in wireless communication applications, the 1.0 / 2.3 is rated to 4 GHz with multiple cable attachment and mounting options available. 75 ohm versions of this series are also available.
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## ELECTRICAL

| | |
|---|---|
| Nominal Impedance: | 50 ohms / 75 ohms |
| Frequency Range: | DC to 4 GHz / 2 GHz |
| Voltage Rating: | 350 volts rms |
| Dielectric Withstanding | 750 volts rms |
| Insulation Resistance: | 200 megohms |
| VSWR: | 1.35 max DC-4 GHz |

## MECHANICAL

| | |
|---|---|
| Mating Characteristics: | CECC 22230 |
| Connector Durability: | 500 cycles min. |
| Cable Attachment: | Crimp/Solder |

## ENVIRONMENTAL

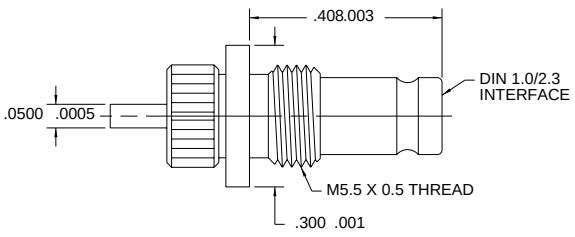
| | |
|---|---|
| Temperature Range: | -67°F to +257°F (-55°C to +125°C) |
| Vibration: | MIL-STD-202 Method 204 (Test Cond. B) |
| Shock: | MIL-STD-202 Method 213 (Test Cond. I) |
| Moisture Resistance: | MIL-STD-202 Method 106 |
| Corrosion (salt spray): | MIL-STD-202 Method 101 (Test Cond.B) |

## MATERIAL / FINISHES

| | |
|---|---|
| Body: | Brass, Gold Plated |
| Contacts (Inner): | |
| Female | Beryllium Copper, Gold Plated |
| Male | Brass, Gold Plated |
| Contacts (Outer): | Beryllium Copper/Brass, Gold Plated |
| Insulators: | Teflon |

Features listed are typical and may vary depending upon cable selection and application.

1.0/2.3 Series TRU-8775




*Press-in Jack Receptacle*

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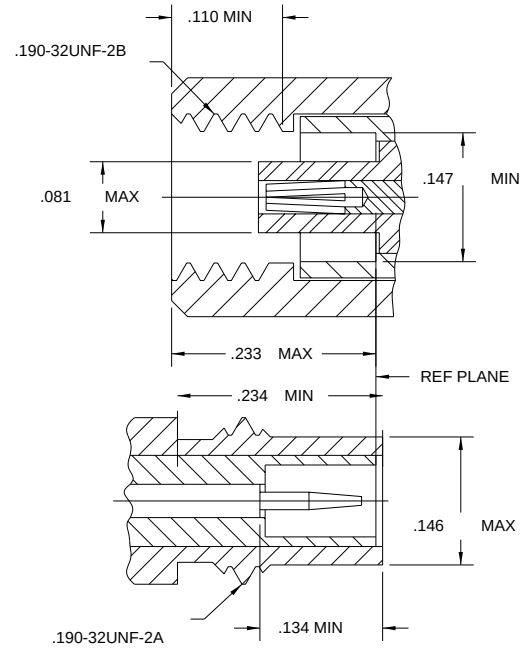


## ELECTRICAL

| | |
|---|---|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC to 10 GHz |
| Voltage Rating: | 335volts rms |
| Dielectric Withstanding | 750 volts rms |
| Insulation Resistance: | 5,000 megohms |
| VSWR: | 1.35 max DC-10 GHz |

## MECHANICAL

| | |
|---|---|
| Mating Characteristics: | per MIL-STD0348 |
| Connector Durability: | 500 cycles min. |
| Cable Attachment: | Clamp/Crimp/Solder |

## ENVIRONMENTAL

| | |
|---|---|
| Temperature Range: | -85°F to +329°F (-65°C to +165°C) |
| Vibration: | MIL-STD-202 Method 204 (Test Cond. B) |
| Shock: | MIL-STD-202 Method 213 (Test Cond. I) |
| Moisture Resistance: | MIL-STD-202 Method 106 |
| Corrosion (salt spray): | MIL-STD-202 Method 101 (Test Cond.B) |

## MATERIAL / FINISHES

| | |
|---|---|
| Body: | Brass, Gold Plated |
| Contacts (Inner): | |
| Female | Beryllium Copper, Gold Plated |
| Male | Brass, Gold Plated |
| Contacts (Outer): | Brass, Gold Plated |
| Insulators: | Teflon |
| Gaskets & Seals: | Silicone Rubber |

Features listed are typical and may vary depending upon cable selection and application.

TRU Corporation subminiature SMC connectors offer a viable and economic alternative in applications where dense RF Interconnect packaging is critical. The SMC series threaded coupling is better suited for more permanent interconnections where the ability to withstand more vibration is needed. The screw on coupling also allows for extended frequency to 6 and 10 GHz.

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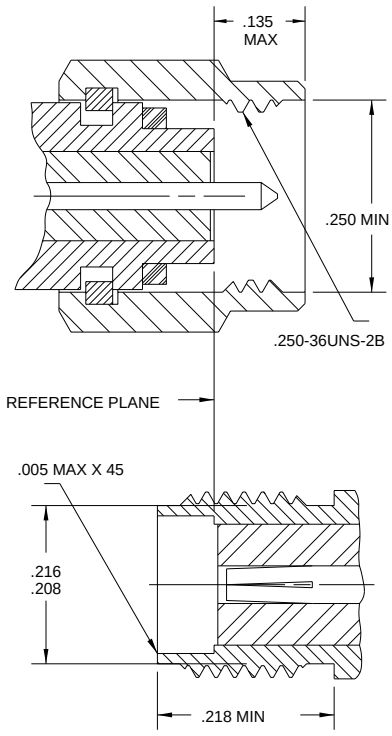


## ELECTRICAL

| | |
|---|---|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC to 18 GHz |
| Voltage Rating: | 375 volts rms |
| Dielectric Withstanding Voltage: | 1000 volts rms |
| Insulation Resistance: | 10,000 megohms |
| VSWR: | 1.35 max DC-18 GHz |

## MECHANICAL

| | |
|---|---|
| Mating Characteristics: | per MIL-STD-348 |
| Connector Durability: | 500 cycles min. |
| Cable Attachment: | Clamp/Crimp/Solder |

## ENVIRONMENTAL

| | |
|---|---|
| Temperature Range: | -85°F to +329°F (-65°C to +165°C) |
| Vibration: | MIL-STD-202 Method 204 (Test Cond. B) |
| Shock: | MIL-STD-202 Method 213 (Test Cond. I) |
| Moisture Resistance: | MIL-STD-202 Method 106 |
| Corrosion (salt spray): | MIL-STD-202 Method 101 (Test Cond.B) |

## MATERIAL / FINISHES

| | |
|---|---|
| Body: | Stainless Steel, Passivated or Gold Plated |
| Contacts (Inner): | |
| Female | Beryllium Copper, Gold Plated |
| Male | Brass, Gold Plated |
| Contacts (Outer): | Stainless Steel, Passivated or Gold Plated |
| Insulators: | Teflon |
| Gaskets & Seals: | Silicone Rubber |

Features listed are typical and may vary depending upon cable selection and application.

TRU Corporation SMA series connectors provide excellent electrical-mechanical performance to 18 GHz with designs available to 26.5 GHz. These connectors feature durable threaded coupling interfaces while maintaining their subminiature size and package. Design options for materials, finishes, cable attachments, and mounting configurations provide the versatility to satisfy most any communication, test & measurement, and avionics application.

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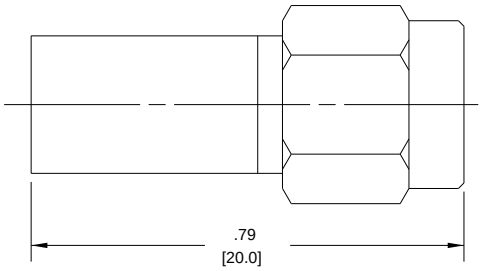
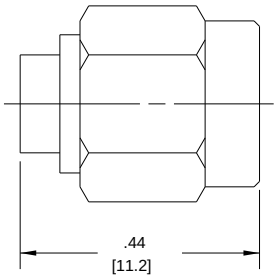
# The Custom Interconnect Leader

## SMA Series Plug — TRU-7368



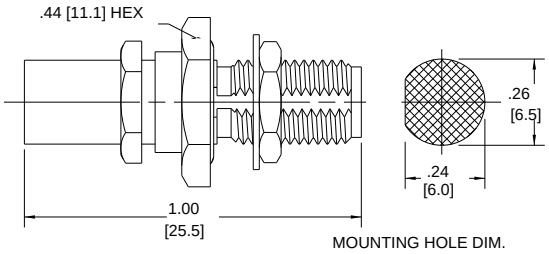

Crimp Plug for RG - 58, 142, 400, etc.

## SMA Series Plug — TRU-7369



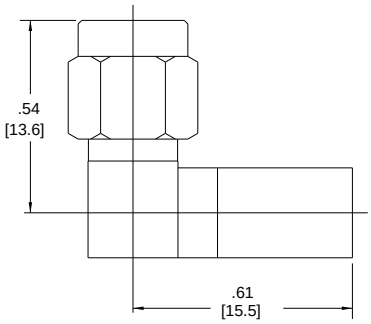

Solder Plug for .141 S/R with soldered C/C

## SMA Series Jack — TRU-7106



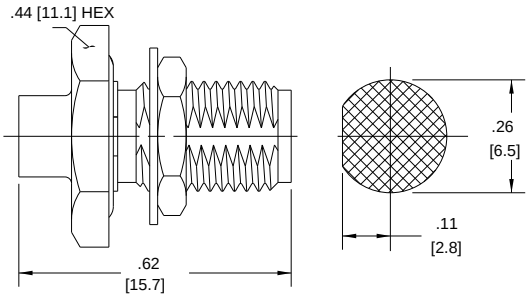

Crimp Bulkhead Feedthru for RG-58, 142, 400

## SMA Series Plug — TRU-7365



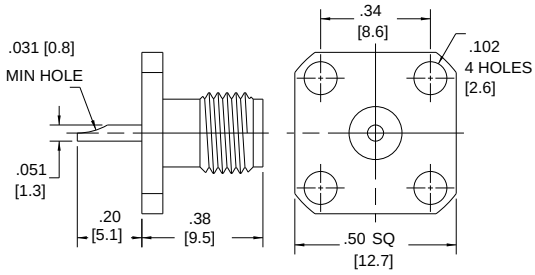

Crimp Plug for RG - 58, 142, 400, etc.

## SMA Series Jack — TRU-7364




Solder Bulkhead Feedthru for .141 S/R

## SMA Series Receptacle — TRU-7124




Flange Mount Receptacle

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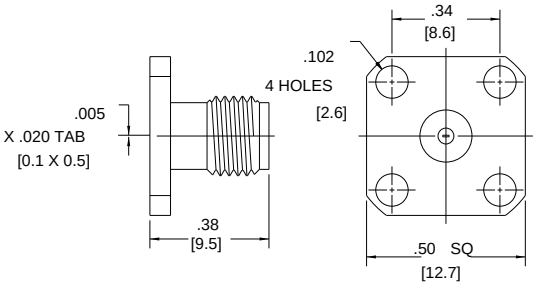
## SMA Series Receptacle — TRU-7128




Flange Mount Receptacle

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