

Between Series Adapters

Between Series Coaxial Transmission Line Adapters provide convenient transitions between popular series coaxial connectors. The adapter design provides a minimum length consistent with good electrical performance. The small size, low VSWR, and broad frequency coverage permits a wide range of applications in both measurement and systems use.

Design and Construction

The standard units are constructed of stainless steel with passivated finish, nickel plated brass, and gold plated brass. The material and plating is to be consistent with the basic connector series. All dielectrics are TFE fluoro-carbon. The center contacts are made of beryllium copper, gold plated.

Types

The straight in-line adapters are available in many combinations of plug and jack (male and female) configurations. Also, popular panel mount versions are cataloged. For special modifications and hermetic seal version, consult Tyco Electronics.

Application

The major application is the requirement for a low VSWR, compact transition in both test system and operating systems. Many panel mount and bulkhead mount versions are available so the designer can use small size connectors for internal design, but adapt to a larger rugged version for external connection.

Selection charts follow to help you find the correct adapter for your application.

Plug-Plug

| | N Series | OSP | OSP Bulkhead | BNC | 7-16 | SMB | SMA | SMP | SSMT | Series 1.0/2.3 | QMA |
|----------------|----------|----------|--------------|----------|----------|----------|----------|----------|----------|----------------|----------|
| MCX | | | | | | | Page 253 | | | | |
| N Series | | | | | Page 253 | | | | | | |
| BNC | | | | | | Page 253 | | | | | |
| Series 1.6/5.6 | | | | Page 253 | | | | | | Page 253 | |
| SMA/SMA 18 GHz | Page 253 | Page 253 | Page 253 | | | Page 253 | | Page 253 | Page 253 | | Page 253 |

Jack-Jack

| | MCX | N Series N Series Flange Mount N Series Bulkhead | OSP OSP Bulkhead OSP Floating Rear Mount | BNC Bulkhead | TNC TNC Flange Mount TNC Bulkhead | 7-16 | SMB SMB 75 OHM SMB | SMP | SSMT | Series 1.0/2.3 | Series 1.6/5.6 |
|-----------------------------|----------|--|--|--------------|-----------------------------------|----------|--------------------|----------|----------|----------------|----------------|
| N Series | | | | | | Page 254 | | | | | |
| BNC | | | | | | | Page 254 | | | | Page 256 |
| TNC | | Page 254 | | Page 254 | | | | | | | |
| SMA SMA Bulkhead SMA 18 GHz | Page 254 | Page 254 and 255 | Page 255 and 256 | Page 254 | Page 254 and 255 | | Page 255 | Page 255 | Page 255 | | |
| Series 1.0/2.3 | | | | | | | | | | | Page 256 |

Between Series Adapters (Continued)

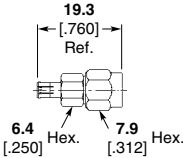
Jack-Plug

| | 7 mm | 7 mm best VSWR | MCX | N Series N Series Flange Mount | OSP OSP Bulkhead | BNC | TNC | SMB | SMA SMA Flange Mount SMA 18 GHz | SMP | SSMT | DIN-Series 1.0/2.3 | DIN-Series 1.6/5.6 | UMCC |
|---------------------------------------|----------|----------------|----------|-----------------------------------|---------------------|----------|----------|----------|---------------------------------------|----------|----------|--------------------|--------------------|----------|
| 7 mm | | | | Page 256 | Page 256 | | Page 256 | | Page 256 | | | | | |
| 7 mm best VSWR | | | | Page 256 | | | Page 256 | | | | | | | |
| MCX | | | | | | | | | Page 256 | | | | | |
| N Series N Series Flange Mount | Page 256 | Page 257 | | | | Page 257 | Page 257 | | Page 257 | | | | | |
| OSP OSP Bulkhead | Page 257 | | | | | | | | Page 257 | | | | | |
| BNC | | | | Page 257 | | | | Page 257 | Page 257 | | | | Page 259 | |
| TNC TNC Flange Mount | Page 258 | Page 258 | | Page 258 | | | | | Page 258 | | | | | |
| SMB 75 OHM SMB | | | | Page 259 | | | | | Page 258 | | | | | |
| SMA SMA Flange Mount SMA 18 GHz | Page 259 | | Page 258 | Page 258 and 259 | Page 260 | Page 258 | Page 259 | Page 259 | | Page 259 | Page 259 | | | Page 259 |
| SMP | | | | | | | | | Page 260 | | | | | |
| SSMT | | | | | | | | | Page 260 | | | | | |
| DIN-Series 1.0/2.3 | | | | | | | | | | | | | Page 260 | |
| DIN-Series 1.6/5.6 | | | | | | Page 259 | | | | | | Page 260 | | |
| QMA | | | | | | | | | Page 260 | | | | | |
| UMCC | | | | | | | | | Page 260 | | | | | |

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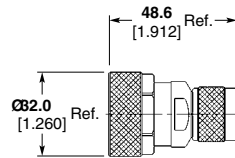
Plug-Plug

MCX Plug – SMA Plug



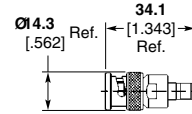
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7-16 Plug – N Series Plug



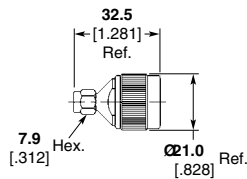
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BNC Plug – SMB Plug



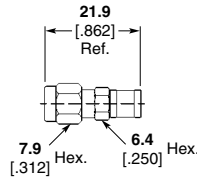
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SMA 18 GHz Plug – N Series Plug



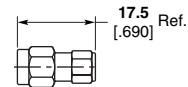
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SMA Plug – SMB Plug



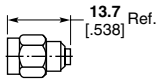
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SMA Plug – SMP Plug



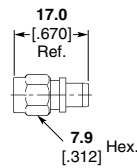
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SMA Plug – SSMT Plug



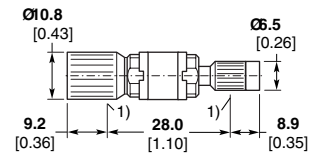
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SMA Plug – OSP Plug



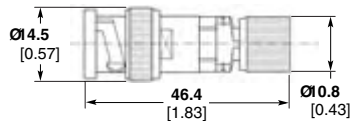
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Series 1.6/5.6 Plug – Series 1.0/2.3 Plug



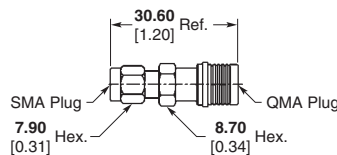
Part No. 2-1393670-1 ♦
Coupling Type A
1) Detent for jack

BNC Plug – Series 1.6/5.6 Plug



Part No. 1-1393665-4 ♦

QMA Plug – SMA Plug



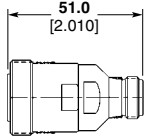
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Between Series Adapters (Continued)

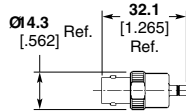
Jack-Jack

7-16 Jack – N Series Jack



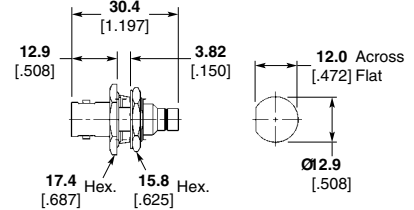
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BNC Jack – SMB Jack



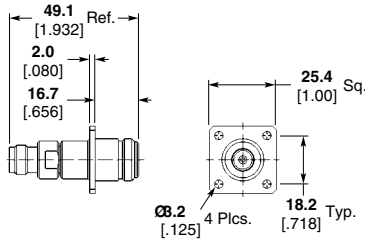
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BNC Jack – 75 ohm SMB Jack



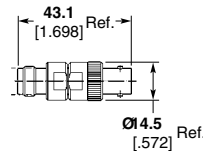
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TNC Jack – N Series Flange Mount Jack



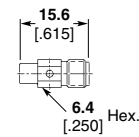
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TNC Jack – BNC Jack



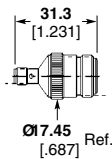
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MCX Jack – SMA Jack



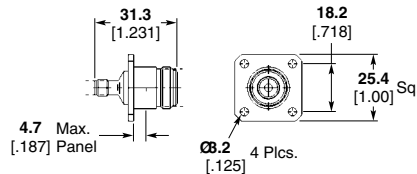
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SMA Jack – N Series Jack



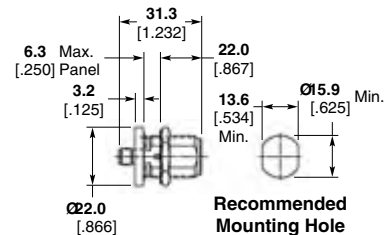
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SMA Jack – N Series Flange Mount



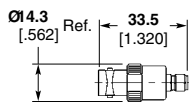
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SMA Jack – N Series Bulkhead Jack



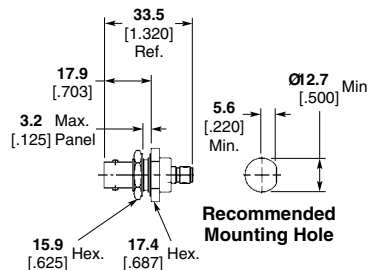
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SMA Jack – BNC Jack



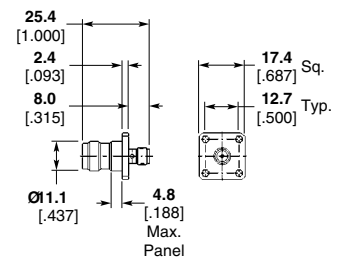
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BNC Bulkhead Jack – SMA Jack



Part No. 1058117-1

TNC Flange Mount Jack – SMA Jack



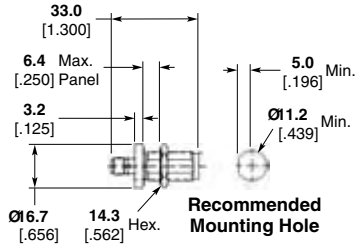
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Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Between Series Adapters (Continued)

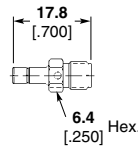
Jack-Jack (Continued)

SMA Jack – TNC Bulkhead Jack



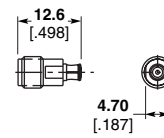
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SMB Jack – SMA Jack



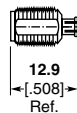
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SMA Jack – SMP Jack



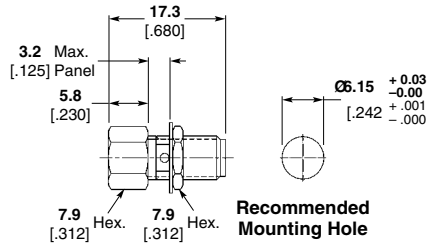
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SMA Jack – SSMT Jack



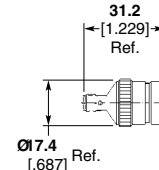
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OSP Jack – SMA Bulkhead Jack



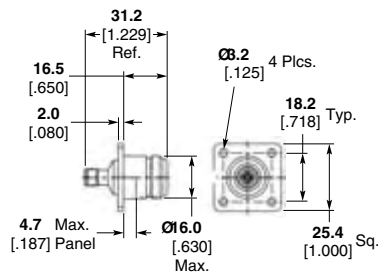
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SMA 18 GHz Jack – N Series Jack



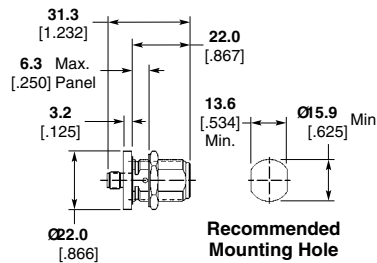
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SMA 18 GHz Jack – N Series Flange Mount Jack



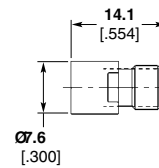
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SMA 18 GHz Jack – N Series Bulkhead Jack



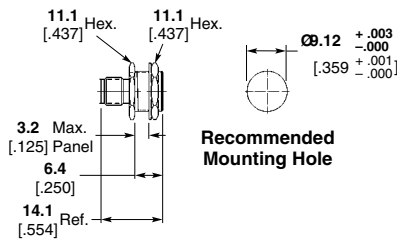
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OSP Jack – SMA Jack



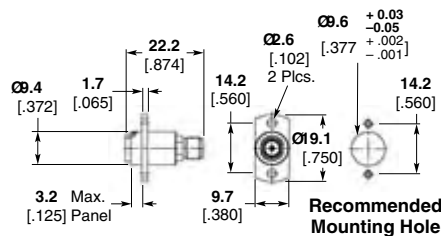
Part No. 1059707-1

SMA Jack – OSP Bulkhead Jack



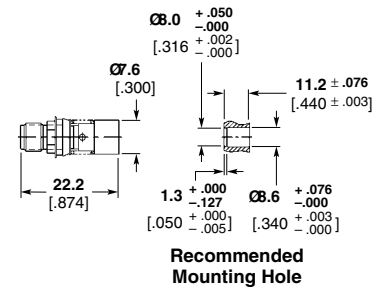
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OSP Floating Flange Mount Jack – SMA Jack



Part No. 1059731-1

SMA Jack – OSP Floating Rear Mount Jack



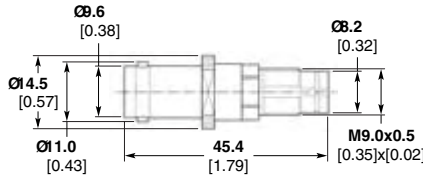
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Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Between Series Adapters (Continued)

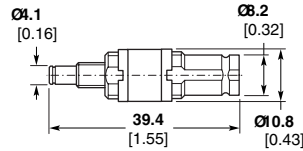
Jack-Jack (Continued)

**BNC Jack –
Series 1.6/5.6 Jack**



Part No. 1-1393665-◆

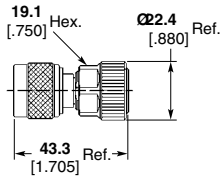
**Series 1.0/2.3 Jack –
Series 1.6/5.6 Jack**



Part No. 2-1393670-◆
Coupling Type A, B, F

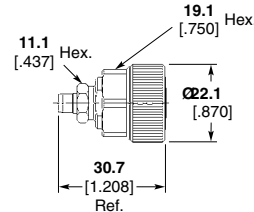
Jack-Plug

N Series Plug to 7 mm Jack



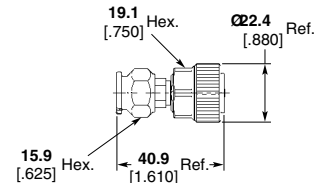
Part No. 1061742-1

OSP Plug to 7 mm Jack



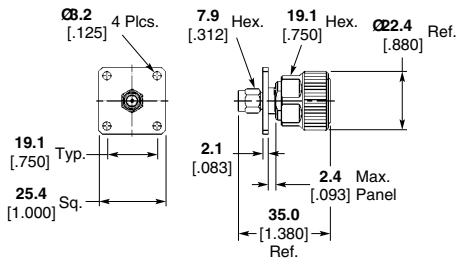
Part No. 1059713-1

TNC Plug to 7 mm Jack



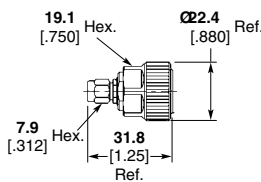
Part No. 1061739-1

SMA Flange Mount Plug to 7 mm Jack



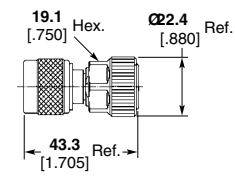
Part No. 1061751-1

SMA Plug to 7 mm Jack



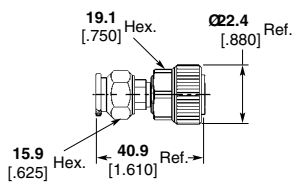
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N Series Plug to 7 mm Best VSWR Jack



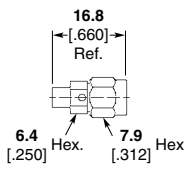
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TNC Plug to 7 mm Best VSWR Jack



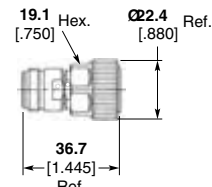
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MCX Jack – SMA Plug



Part No. 1061073-1

N Series Jack – 7 mm Plug



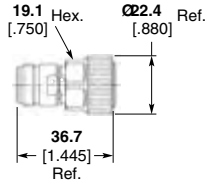
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Note: Part Numbers are RoHS compliant except: ◆ Indicates non-RoHS compliant.

Between Series Adapters (Continued)

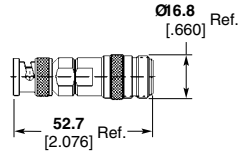
Jack-Plug (Continued)

N Series Jack – 7 mm Best VSWR Plug



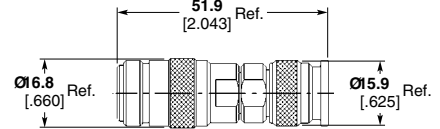
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BNC Plug – N Series Jack



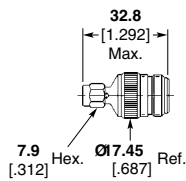
Part No. 1057392-1

N Series Jack – TNC Plug



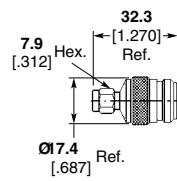
Part No. 1057388-1

SMA Plug – N Series Jack



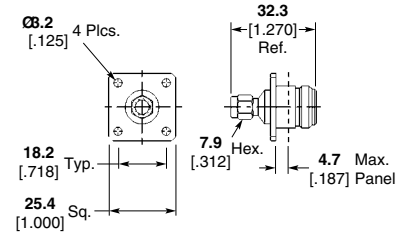
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SMA 18 GHz Plug – N Series Jack



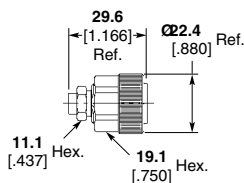
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SMA Plug – N Series Flange Mount Jack



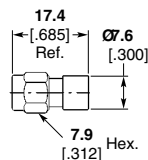
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OSP Jack – 7 mm Plug



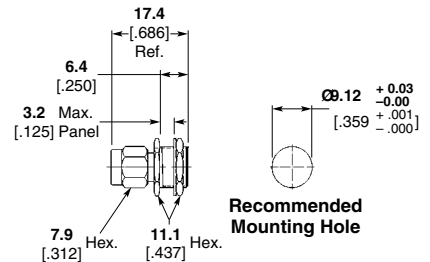
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SMA Plug – OSP Jack



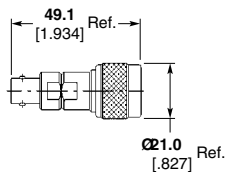
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SMA Plug – OSP Bulkhead Jack



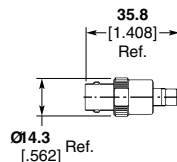
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BNC Jack – N Series Plug



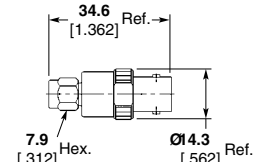
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BNC Jack – SMB Plug



Part No. 1058077-1

SMA Plug – BNC Jack



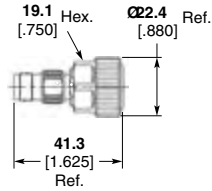
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Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Between Series Adapters (Continued)

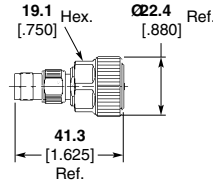
Jack-Plug (Continued)

TNC Jack – 7 mm Plug



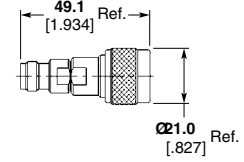
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TNC Jack – 7 mm Best VSWR Plug



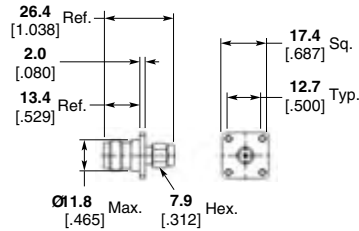
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TNC Jack – N Series Plug



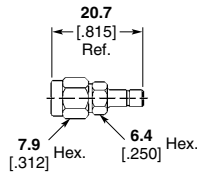
Part No. 1057387-1

TNC Flange Mount Jack – SMA Plug



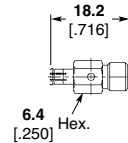
Part No. 1057857-1

SMA Plug – SMB Jack



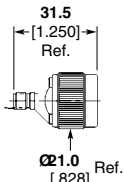
Part No. 1060500-1

SMA Jack – MCX Plug



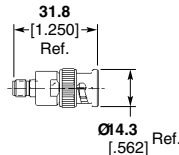
Part No. 1061072-1

SMA 18 GHz Jack – N Series Plug



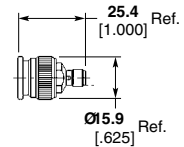
Part No. 1057377-1

SMA Jack – BNC Plug



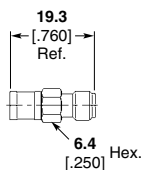
Part No. 1058081-1

TNC Plug – SMA Jack



Part No. 1057853-1

SMA Jack – SMB Plug



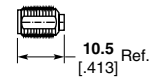
Part No. 1060498-1

SMA Jack – SMP Plug



Part No. 1056707-1

SMA Jack – SSMT Plug



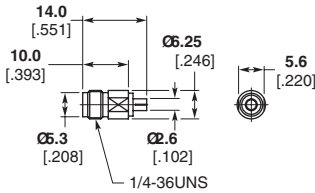
Part No. 1055696-1

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Between Series Adapters (Continued)

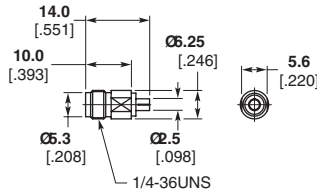
Jack-Plug (Continued)

SMA Jack – UMCC Plug



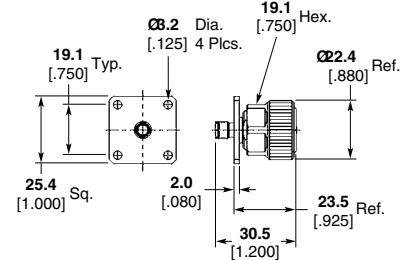
Part No. 1775229-1

SMA Jack – UMCC Plug



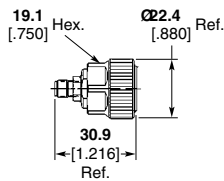
Part No. 1775230-1

SMA Flange Mount Jack – 7 mm Plug



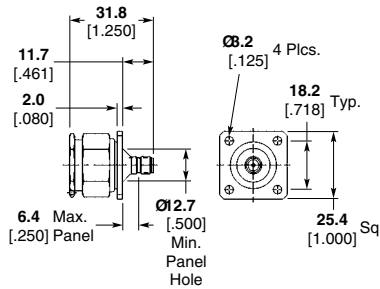
Part No. 1061750-1

SMA 18 GHz Jack – 7 mm Plug



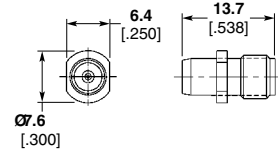
Part No. 1053788-1

N Series Flange Mount Plug – SMA 18 GHz Jack



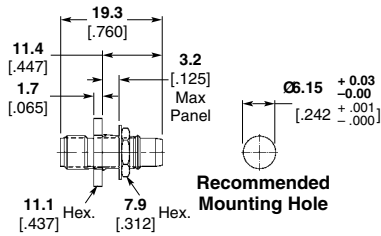
Part No. 1058666-1

OSP Plug – SMA Jack



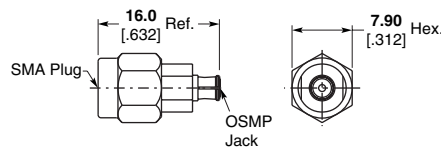
Part No. 1059716-1

SMA 18 GHz Jack – OSP Bulkhead Plug



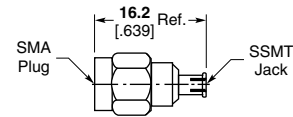
Part No. 1059756-1

SMP Jack – SMA Plug



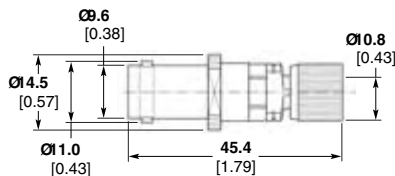
Part No. 1056708-1

SSMT Jack – SMA Plug



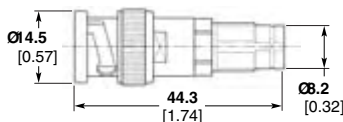
Part No. 1055697-1

BNC Jack – Series 1.6/5.6 Plug



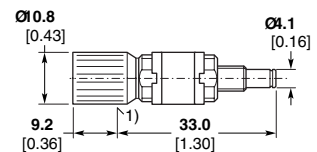
Part No. 1-1393665-7 ♦

BNC Plug – Series 1.6/5.6 Jack



Part No. 1-1393665-6 ♦

Series 1.6/5.6 Plug – Series 1.0/2.3 Jack



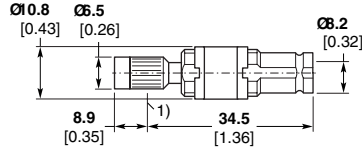
Part No. 2-1393670-2 ♦
Coupling Type A, B², F²

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

Between Series Adapters (Continued)

Jack-Plug (Continued)

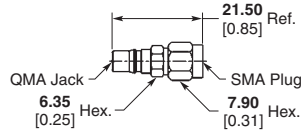
Series Plug 1.0/2.3 – Series 1.6/5.6 Jack



Part No. 2-1393670-3 ♦
Coupling Type A, B², F²

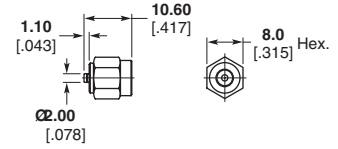
- 1) Detent for jack
- 2 Only jackside

QMA Jack – SMA Plug



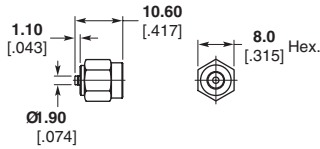
Part No. 1408343-1

UMCC Jack – SMA Plug



Part No. 1775228-1

UMCC Jack – SMA Plug



Part No. 1775227-1

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.