

## 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 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)

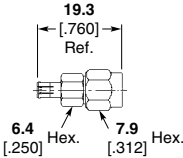
**Jack-Plug**

	7 mm	7 mm best VSWR	MCX	N Series N Series N Series Flange Mount	OSP OSP OSP Bulkhead	BNC	TNC	SMB	SMA 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					

**Between Series Adapters** (Continued)

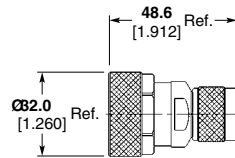
**Plug-Plug**

**MCX Plug – SMA Plug**



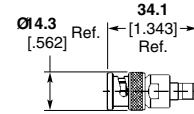
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**7-16 Plug – N Series Plug**



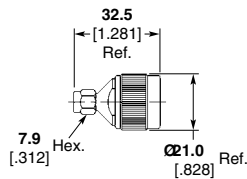
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**BNC Plug – SMB Plug**



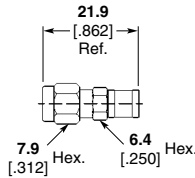
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**SMA 18 GHz Plug – N Series Plug**



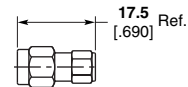
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**SMA Plug – SMB Plug**



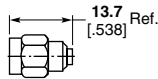
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**SMA Plug – SMP Plug**



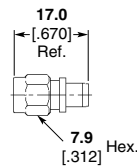
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**SMA Plug – SSMT Plug**



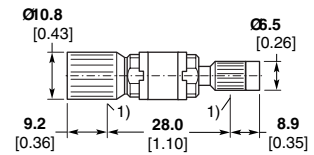
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**SMA Plug – OSP Plug**



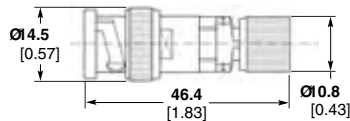
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**Series 1.6/5.6 Plug – Series 1.0/2.3 Plug**



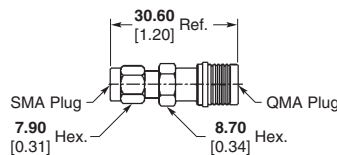
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Coupling Type A  
1) Detent for jack

**BNC Plug – Series 1.6/5.6 Plug**



Part No. 1-1393665-4 ♦

**QMA Plug – SMA Plug**



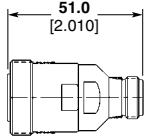
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**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

**Between Series Adapters** (Continued)

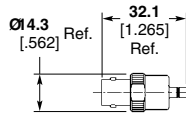
**Jack-Jack**

**7-16 Jack – N Series Jack**



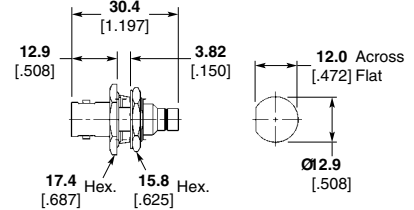
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**BNC Jack – SMB Jack**



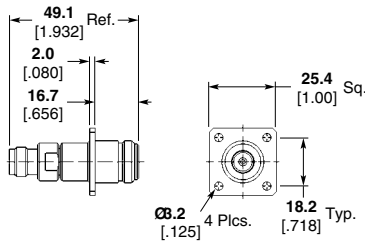
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**BNC Jack – 75 ohm SMB Jack**



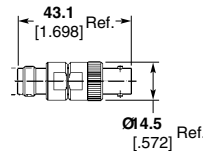
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**TNC Jack – N Series Flange Mount Jack**



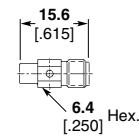
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**TNC Jack – BNC Jack**



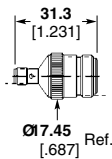
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**MCX Jack – SMA Jack**



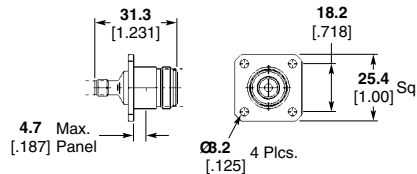
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**SMA Jack – N Series Jack**



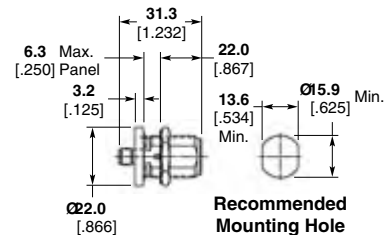
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**SMA Jack – N Series Flange Mount**



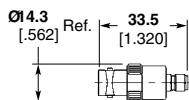
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**SMA Jack – N Series Bulkhead Jack**



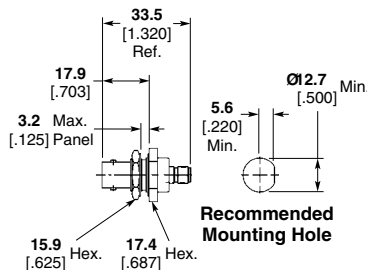
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**SMA Jack – BNC Jack**



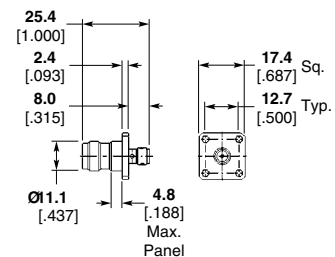
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**BNC Bulkhead Jack – SMA Jack**



Part No. 1058117-1

**TNC Flange Mount Jack – SMA Jack**



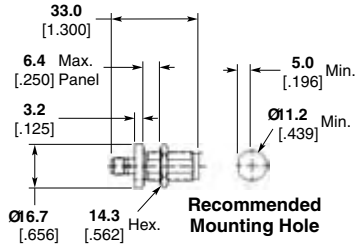
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**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

**Between Series Adapters** (Continued)

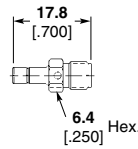
**Jack-Jack** (Continued)

**SMA Jack – TNC Bulkhead Jack**



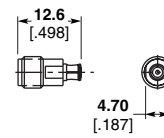
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**SMB Jack – SMA Jack**



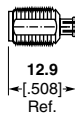
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**SMA Jack – SMP Jack**



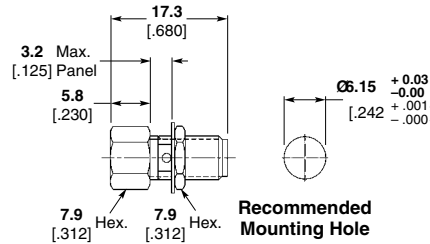
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**SMA Jack – SSMT Jack**



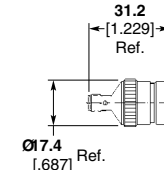
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**OSP Jack – SMA Bulkhead Jack**



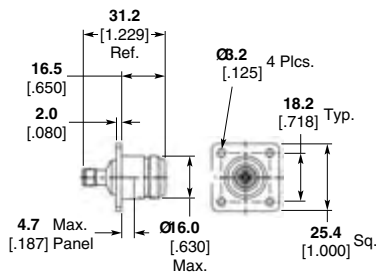
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**SMA 18 GHz Jack – N Series Jack**



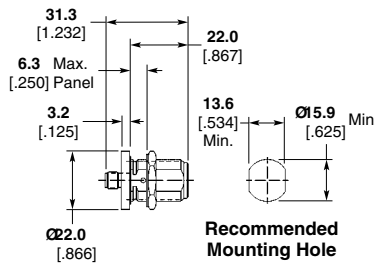
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**SMA 18 GHz Jack – N Series Flange Mount Jack**



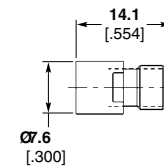
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**SMA 18 GHz Jack – N Series Bulkhead Jack**



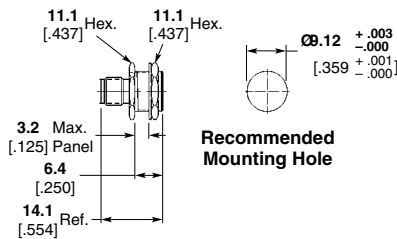
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**OSP Jack – SMA Jack**



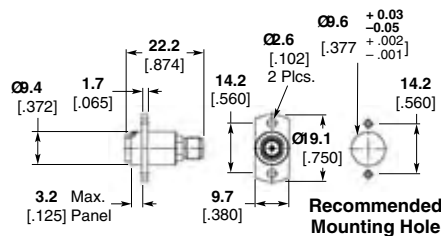
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**SMA Jack – OSP Bulkhead Jack**



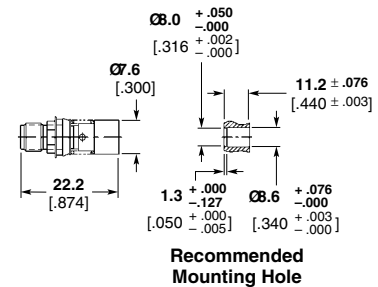
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**OSP Floating Flange Mount Jack – SMA Jack**



Part No. 1059731-1

**SMA Jack – OSP Floating Rear Mount Jack**



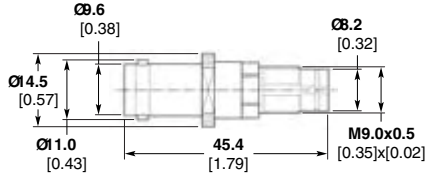
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**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

**Between Series Adapters (Continued)**

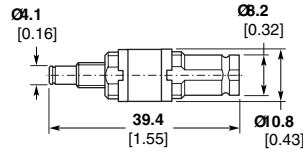
**Jack-Jack (Continued)**

**BNC Jack –  
Series 1.6/5.6 Jack**



Part No. 1-1393665-5 ♦

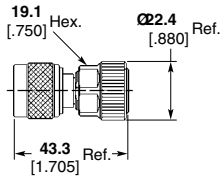
**Series 1.0/2.3 Jack –  
Series 1.6/5.6 Jack**



Part No. 2-1393670-4 ♦  
Coupling Type A, B, F

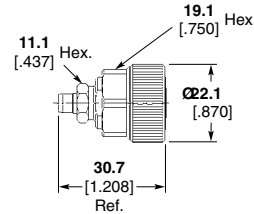
**Jack-Plug**

**N Series Plug to 7 mm Jack**



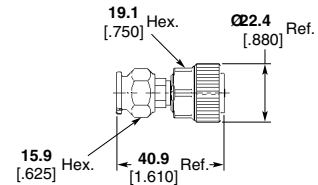
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**OSP Plug to 7 mm Jack**



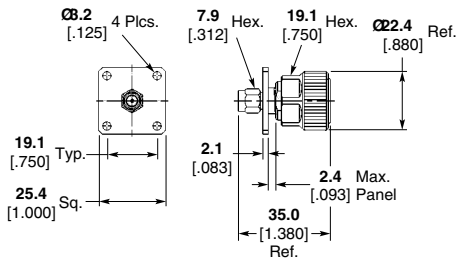
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**TNC Plug to 7 mm Jack**



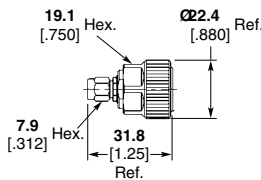
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**SMA Flange Mount Plug to 7 mm Jack**



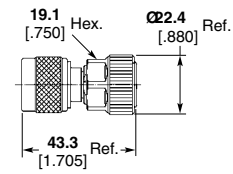
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**SMA Plug to 7 mm Jack**



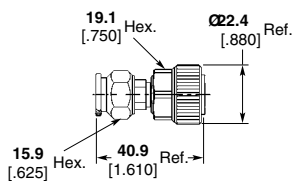
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**N Series Plug to 7 mm Best VSWR Jack**



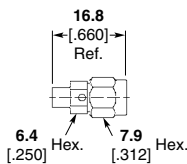
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**TNC Plug to 7 mm Best VSWR Jack**



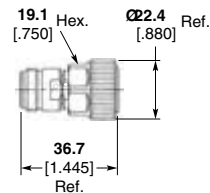
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**MCX Jack – SMA Plug**



Part No. 1061073-1

**N Series Jack – 7 mm Plug**



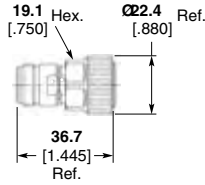
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**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

**Between Series Adapters** (Continued)

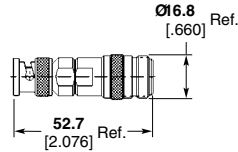
**Jack-Plug** (Continued)

**N Series Jack – 7 mm Best VSWR Plug**



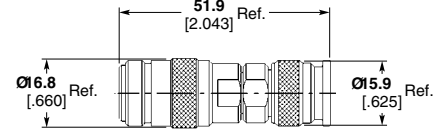
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**BNC Plug – N Series Jack**



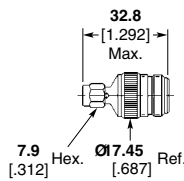
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**N Series Jack – TNC Plug**



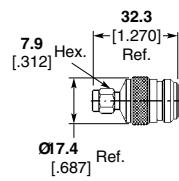
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**SMA Plug – N Series Jack**



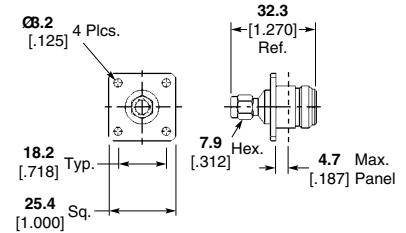
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**SMA 18 GHz Plug – N Series Jack**



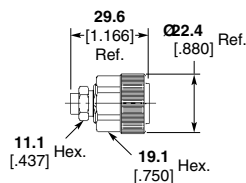
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**SMA Plug – N Series Flange Mount Jack**



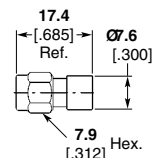
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**OSP Jack – 7 mm Plug**



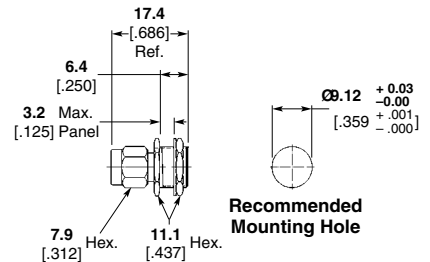
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**SMA Plug – OSP Jack**



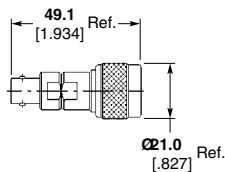
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**SMA Plug – OSP Bulkhead Jack**



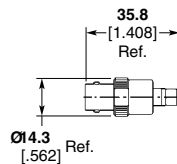
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**BNC Jack – N Series Plug**



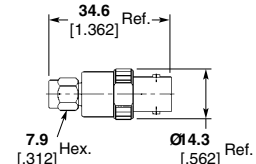
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**BNC Jack – SMB Plug**



Part No. 1058077-1

**SMA Plug – BNC Jack**



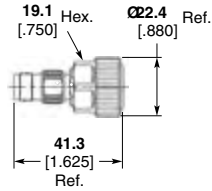
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**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

**Between Series Adapters** (Continued)

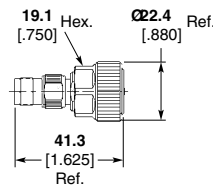
**Jack-Plug** (Continued)

**TNC Jack – 7 mm Plug**



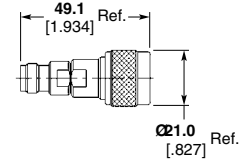
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**TNC Jack – 7 mm Best VSWR Plug**



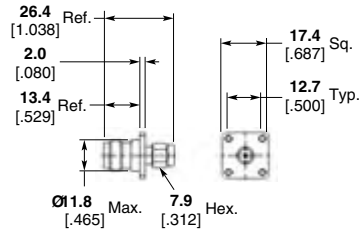
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**TNC Jack – N Series Plug**



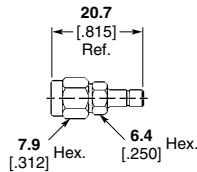
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**TNC Flange Mount Jack – SMA Plug**



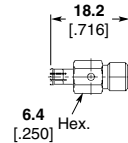
Part No. 1057857-1

**SMA Plug – SMB Jack**



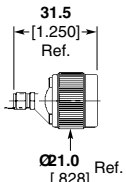
Part No. 1060500-1

**SMA Jack – MCX Plug**



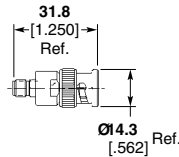
Part No. 1061072-1

**SMA 18 GHz Jack – N Series Plug**



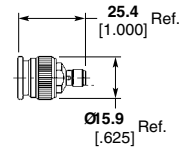
Part No. 1057377-1

**SMA Jack – BNC Plug**



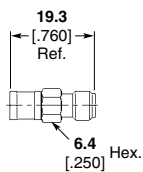
Part No. 1058081-1

**TNC Plug – SMA Jack**



Part No. 1057853-1

**SMA Jack – SMB Plug**



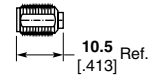
Part No. 1060498-1

**SMA Jack – SMP Plug**



Part No. 1056707-1

**SMA Jack – SSMT Plug**



Part No. 1055696-1

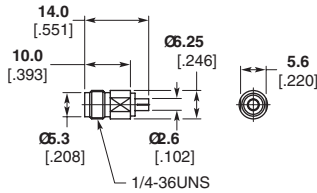
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.



**Between Series Adapters (Continued)**

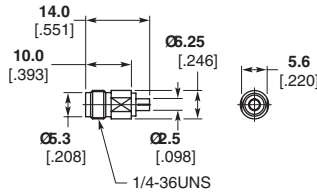
**Jack-Plug (Continued)**

**SMA Jack – UMCC Plug**



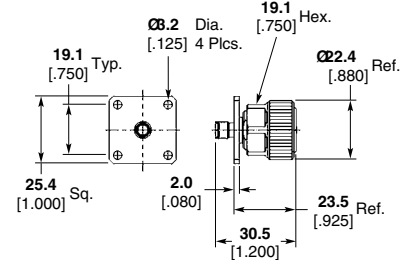
Part No. 1775229-1

**SMA Jack – UMCC Plug**



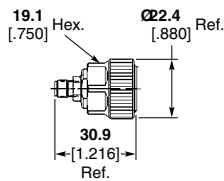
Part No. 1775230-1

**SMA Flange Mount Jack – 7 mm Plug**



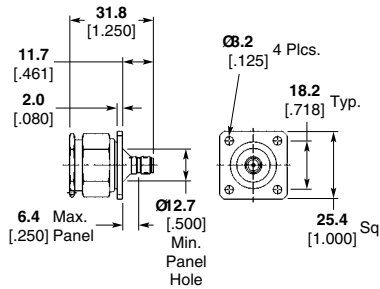
Part No. 1061750-1

**SMA 18 GHz Jack – 7 mm Plug**



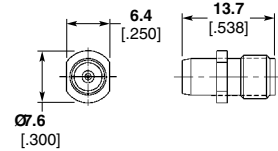
Part No. 1053788-1

**N Series Flange Mount Plug – SMA 18 GHz Jack**



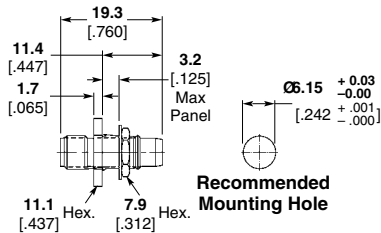
Part No. 1058666-1

**OSP Plug – SMA Jack**



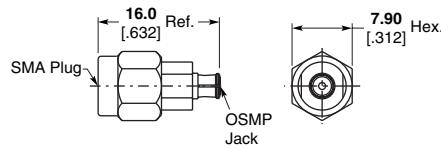
Part No. 1059716-1

**SMA 18 GHz Jack – OSP Bulkhead Plug**



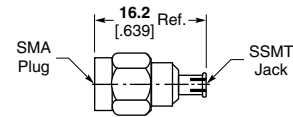
Part No. 1059756-1

**SMP Jack – SMA Plug**



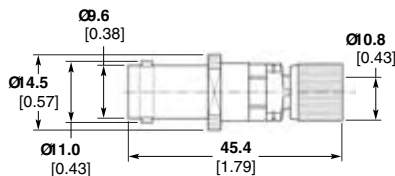
Part No. 1056708-1

**SSMT Jack – SMA Plug**



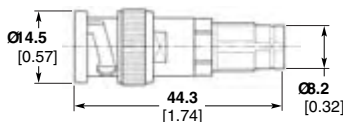
Part No. 1055697-1

**BNC Jack – Series 1.6/5.6 Plug**



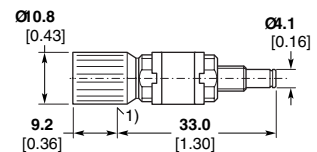
Part No. 1-1393665-7 ♦

**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**



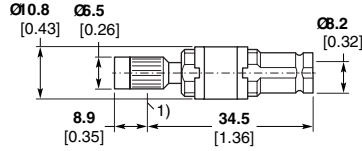
Part No. 2-1393670-2 ♦  
Coupling Type A, B<sup>2</sup>, F<sup>2</sup>

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

**Between Series Adapters** (Continued)

**Jack-Plug** (Continued)

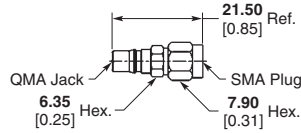
**Series Plug 1.0/2.3 – Series 1.6/5.6 Jack**



**Part No. 2-1393670-3** ♦  
Coupling Type A, B<sup>2</sup>, F<sup>2</sup>

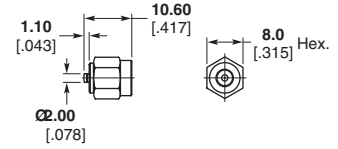
- 1) Detent for jack
- 2 Only jackside

**QMA Jack – SMA Plug**



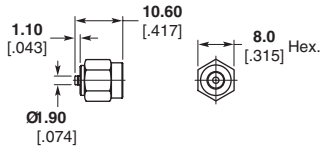
**Part No. 1408343-1**

**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.