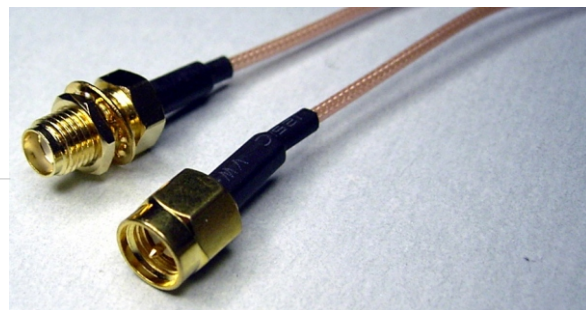


SMA Connectors



Features & Benefits:

- Broadband performance DC to 18 GHz with low reflection stainless steel construction and 1/4-36 threaded coupling offers high performance in a compact design.
- Low cost Commercial Grade (Brass SMA) available in nickel or gold plating which provides approximately 30% cost reduction with 250 mating cycles.
- Available for .085" and .141" diameter semi-rigid cables and all the standard flexible cables including double shielded RG-316.
- Phase Adjustable SMA connectors provide ease of mechanical screw adjustments, compared to the delays and expense of laborious cable-trimming.

Applications:

- Base Stations
- Instrumentation
- Process Controls
- Cable Assemblies
- Mil/Aero
- Telecom
- Components
- PC/LAN

Family:

SMA Plugs

SMA Jacks

SMA Adapters



BNC Plugs

Features

The Micro USB gives portable device and mobile phone makers the ability to further reduce their real estate in their applications



BNC Jacks

Features

Molex's sealed, industrial Universal Serial Bus (USB) connectors are ideal for industrial and harsh commercial applications, where a secure and robust connection is required. The rugged, plug and receptacle designs feature bayonet-style latches, encapsulated PCB receptacles and overmolded cable assemblies to help keep out dust, debris and water.

SMA Connector Series

KLS1-SMA001 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range: Semi-rigid cable: 0-18 GHz
Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR : 1.15 +0.02 f (GHz) for Straight connector typical
1.25 +0.025 f (GHz) for Right angle connector typical

Contact Resistance: Center contact: 2.0 m Ω
Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

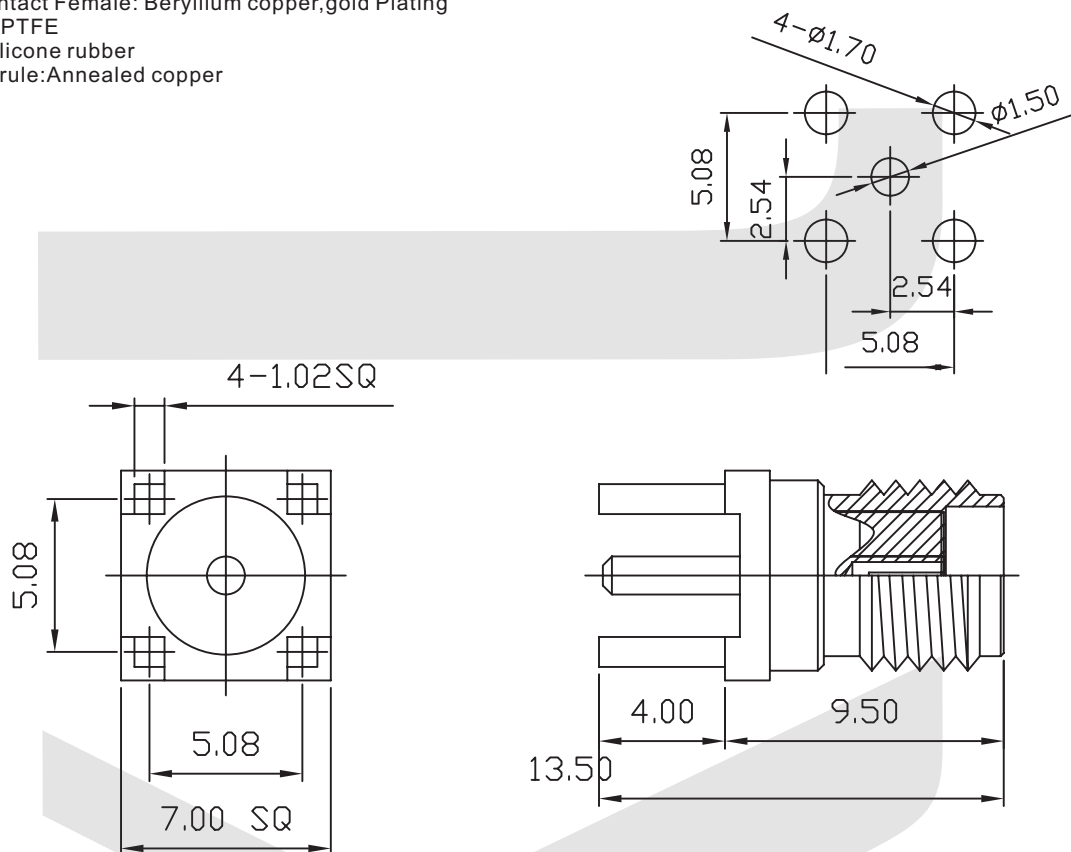
Center contact Male: Brass, gold Plating

Center contact Female: Beryllium copper, gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



ORDER INFORMATION

Product NO.: KLS1-SMA001

Pos. NO. _____

SMA Connector Type _____

SMA Connector Series

KLS1-SMA001A SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range: Semi-rigid cable: 0-18 GHz
Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR : 1.15 +0 .02 f (GHz) for Straight connector typical
1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance: Center contact: 2.0 m Ω
Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

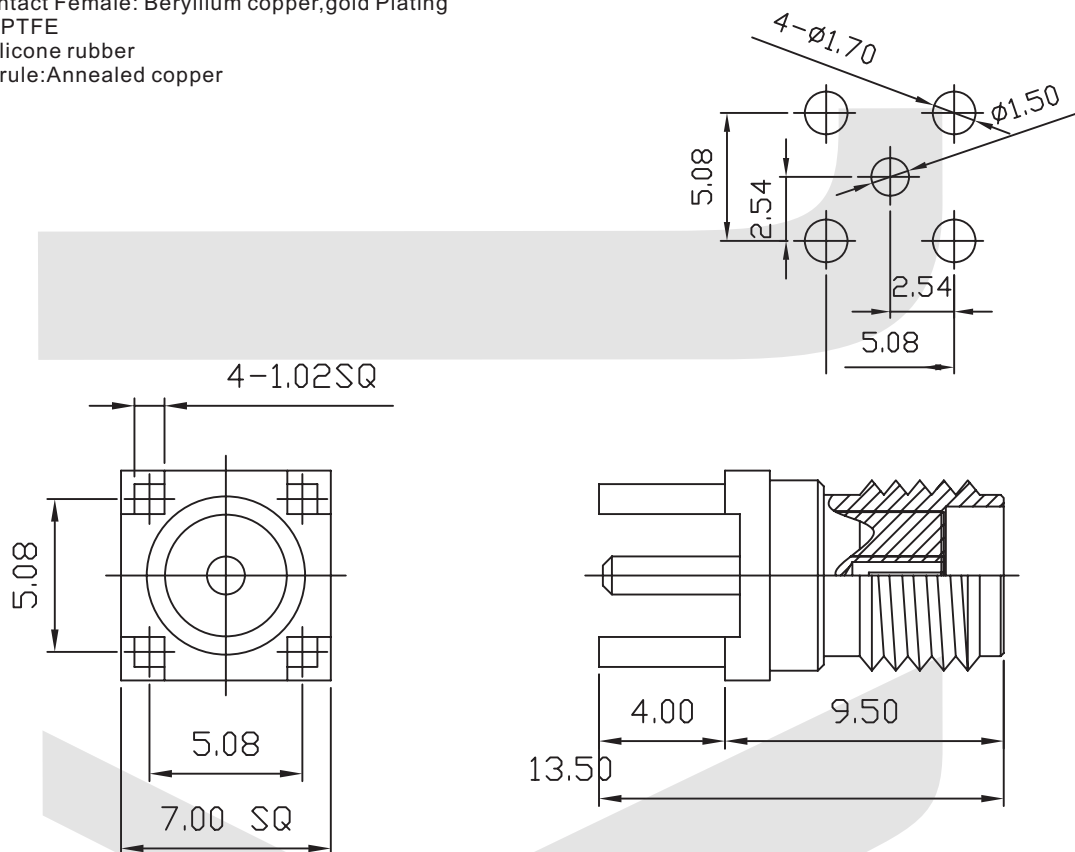
Center contact Male: Brass, gold Plating

Center contact Female: Beryllium copper, gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



ORDER INFORMATION

Product NO.: KLS1-SMA001A

Pos. NO. _____

SMA Connector Type _____

SMA Connector Series

KLS1-SMA002 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance

Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

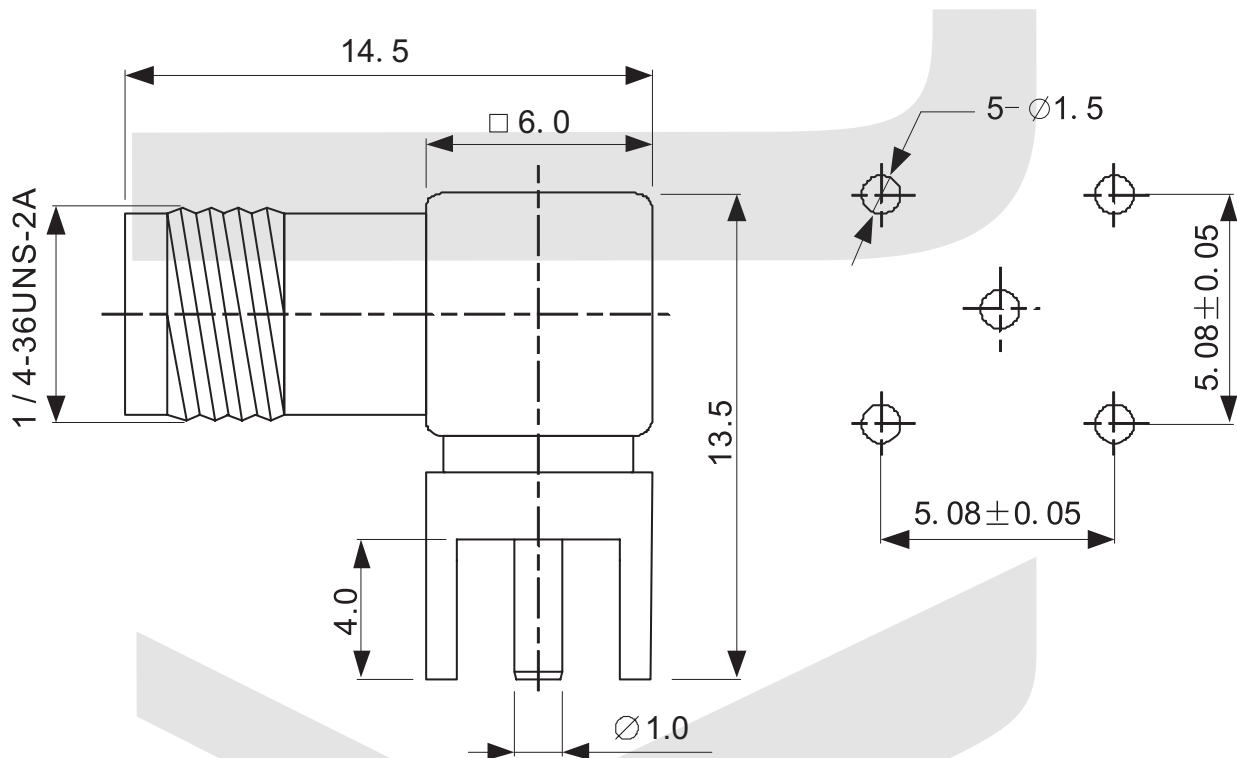
Center contact Male: Brass,gold Plating

Center contact Female: Beryllium copper,gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



ORDER INFORMATION

Product NO.: KLS1-SMA002

Pos. NO. _____

SMA Connector Type _____

SMA Connector Series

KLS1-SMA002 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance

Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

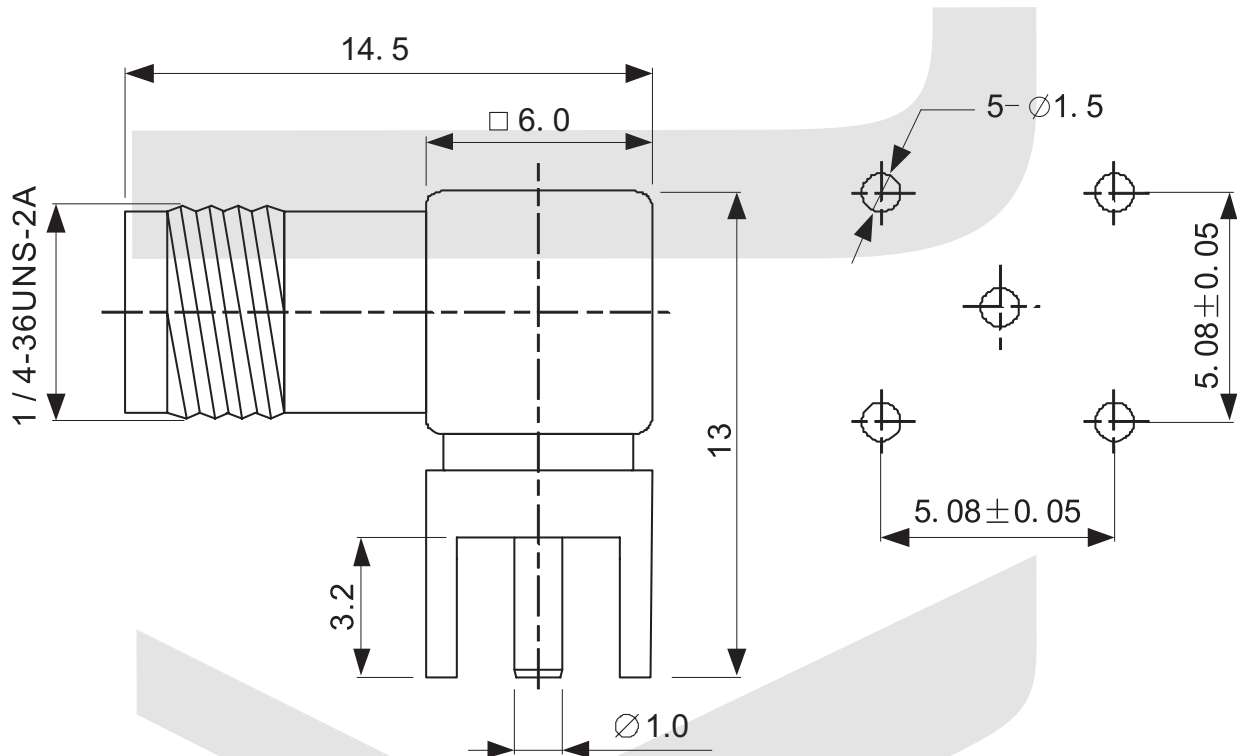
Center contact Male: Brass,gold Plating

Center contact Female: Beryllium copper,gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



ORDER INFORMATION

Product NO.: KLS1-SMA002

Pos. NO. _____

SMA Connector Type _____

SMA Connector Series

KLS1-SMA003 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance

Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

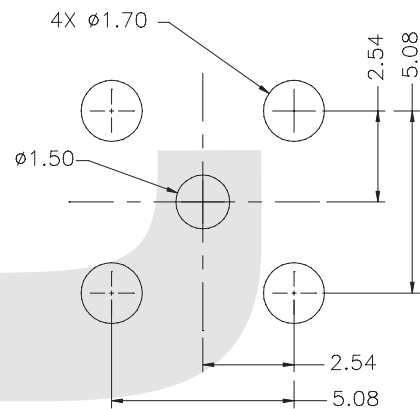
Center contact Male: Brass,gold Plating

Center contact Female: Beryllium copper,gold Plating

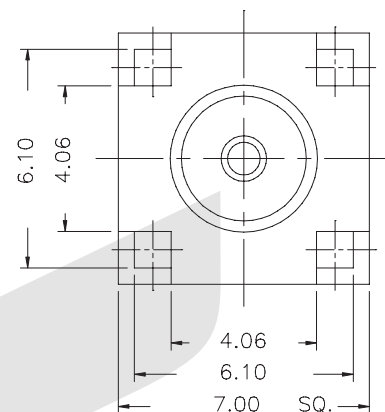
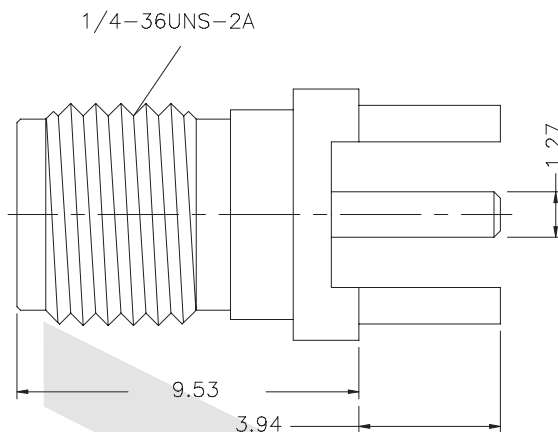
Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



PCB MOUNTING HOLES



ORDER INFORMATION

Product NO.: KLS1-SMA003

Pos. NO. _____

SMA Connector Type _____

SMA Connector Series

KLS1-SMA004 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance: Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

Center contact Male: Brass,gold Plating

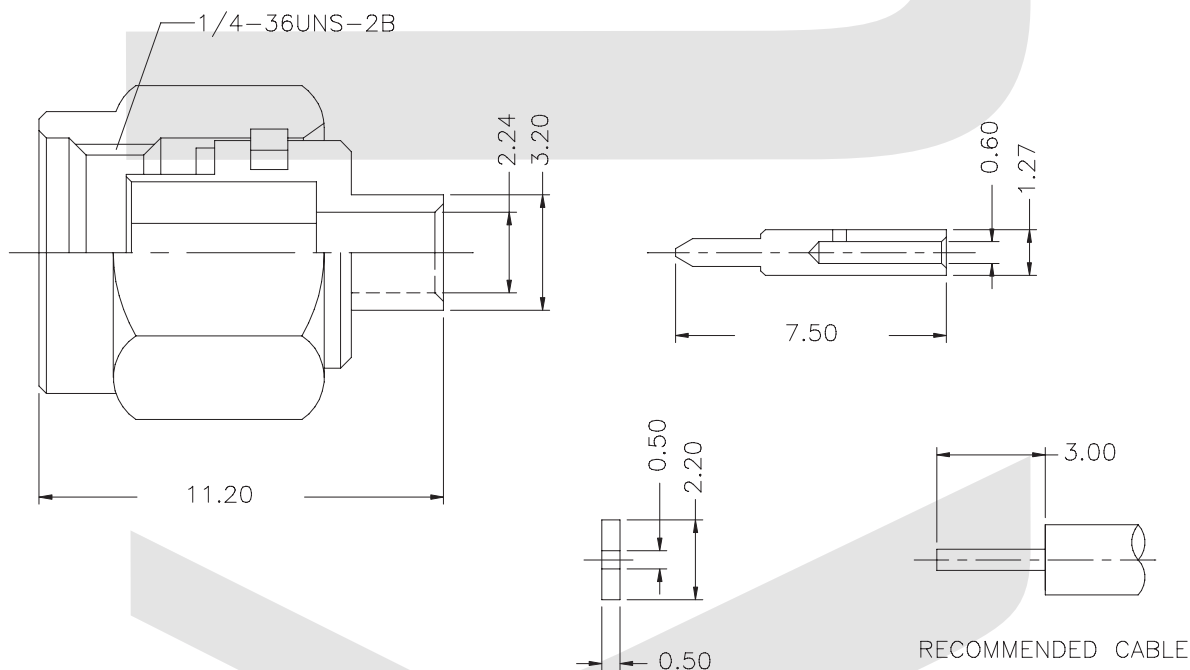
Center contact Female: Beryllium copper,gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper

Cable Group: RG-405



ORDER INFORMATION

Product NO.: KLS1-SMA004

Pos. NO. _____

SMA Connector Type _____

SMA Connector Series

KLS1-SMA005 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance: Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C



Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

Center contact Male: Brass,gold Plating

Center contact Female: Beryllium copper,gold Plating

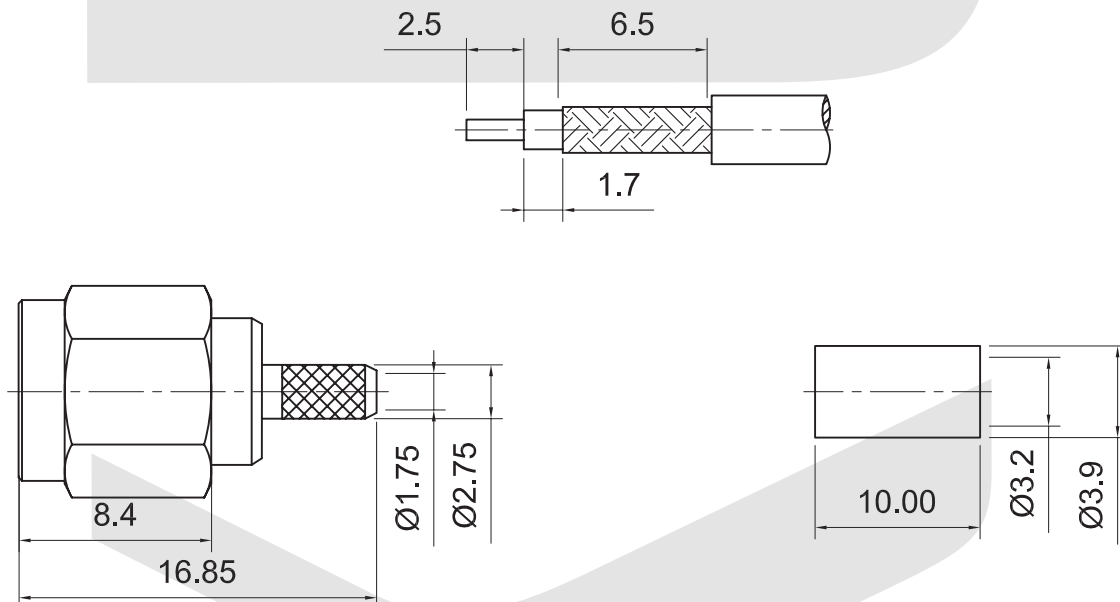
Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper

Cable Group: RG-316,174,188;Q1,D316

RECOMMENDED CABLE STRIPPING DIM'S



ORDER INFORMATION

Product NO.: KLS1-SMA005

Pos. NO. _____

SMA Connector Type _____

KLS1-SMA006

**Product No. : KLS1-SMA006**

Part NO.

SMA Connector Series

KLS1-SMA007 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance: Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

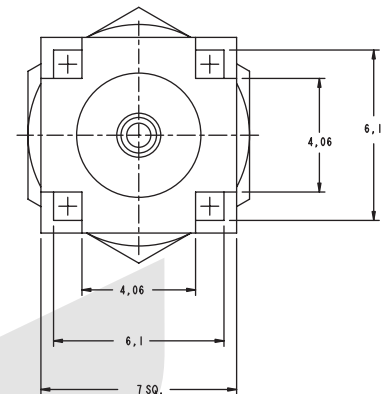
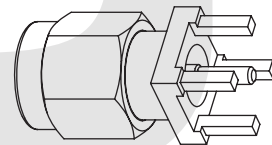
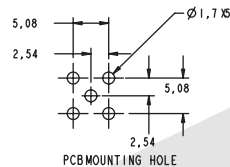
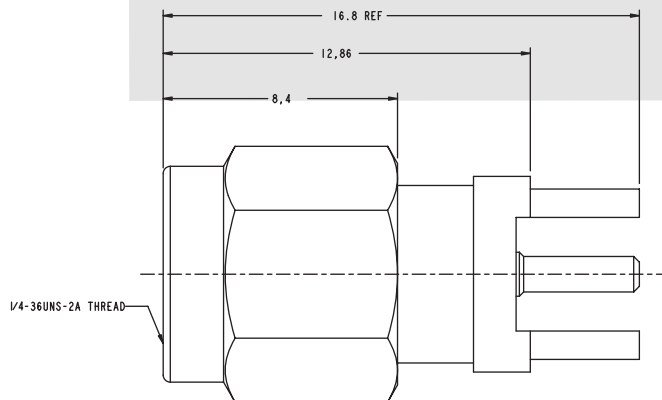
Center contact Male: Brass,gold Plating

Center contact Female: Beryllium copper,gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



ORDER INFORMATION

Product NO.: KLS1-SMA007

Pos. NO. _____

SMA Connector Type _____

SMA Connectors Series

KLS1-SMA008



ORDER INFORMATION

Product No. : KLS1-SMA008

Pos. NO.

Part NO.

SMA Connectors Series

KLS1-SMA009



ORDER INFORMATION

Product No. : KLS1-SMA009

Pos. NO.

Part NO.

SMA Connectors Series

KLS1-SMA010

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ORDER INFORMATION

Product No. : KLS1-SMA010

Pos. NO.

Part NO.

SMA Connector Series

KLS1-SMA011 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance: Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

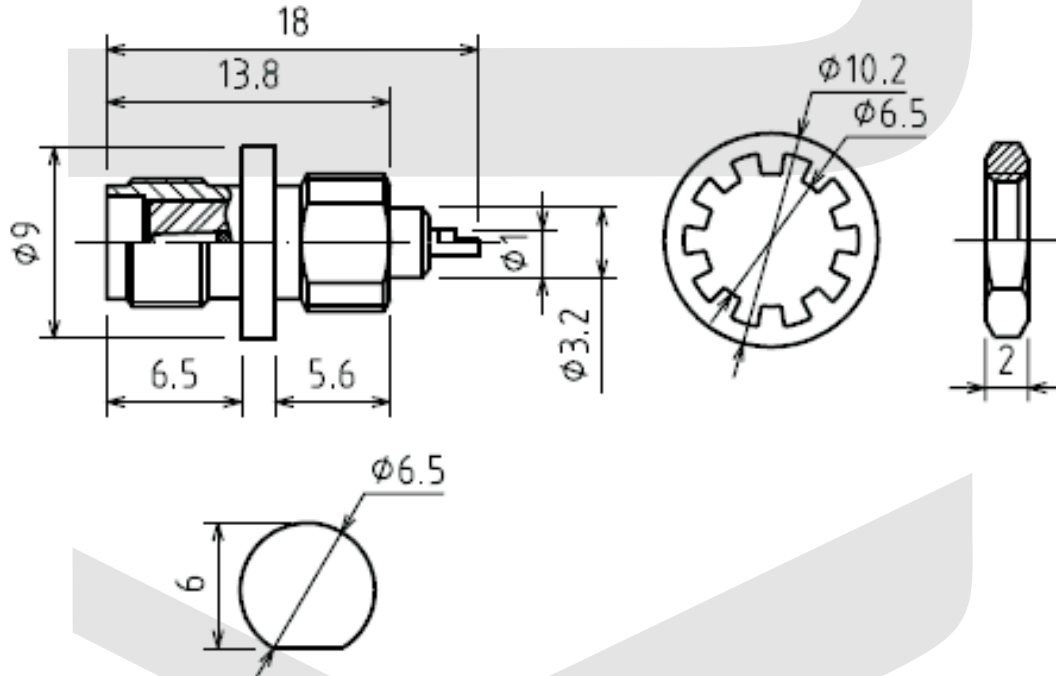
Center contact Male: Brass,gold Plating

Center contact Female: Beryllium copper,gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



ORDER INFORMATION

Product NO.: KLS1-SMA011

Pos. NO. _____

SMA Connector Type _____

SMA Connector Series

KLS1-SMA012 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance: Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

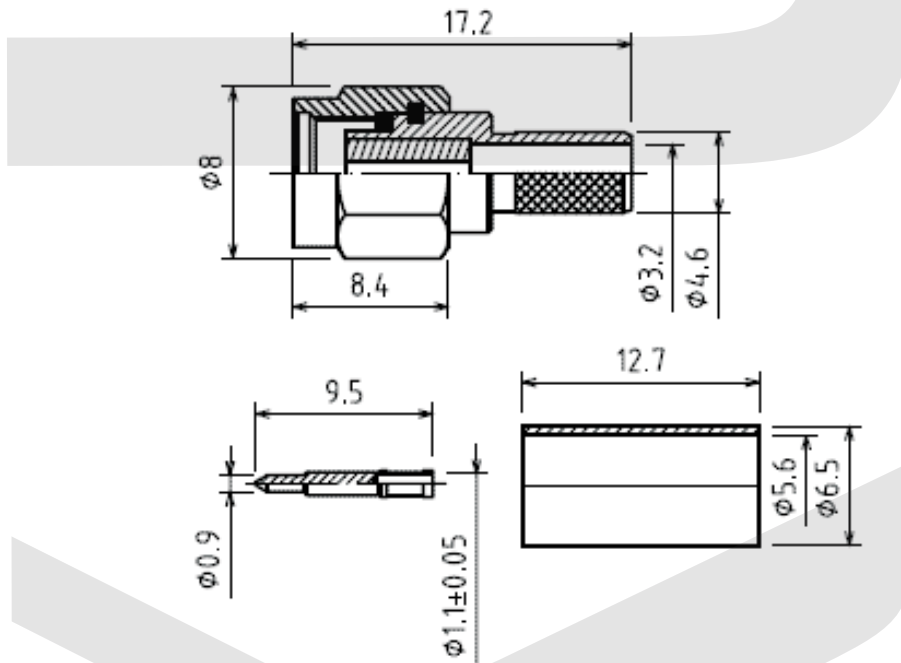
Center contact Male: Brass, gold Plating

Center contact Female: Beryllium copper, gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



ORDER INFORMATION

Product NO.: KLS1-SMA012

Pos. NO. _____

SMA Connector Type _____

SMA Connectors Series

KLS1-SMA014

Electrical Specifications

Impedance: 50 Ω
Frequency Range
Semi-rigid cable: 0-18 GHz
Flexible cables: 0-12.4 GHz
Voltage Rating : 335 volts rms.
Dielectric Withstanding Voltage : 500 volts rms.
VSWR :
1.15 +0 .02 f (GHz) for Straight connector typical
1.25 +0 .025 f (GHz) for Right angle connector typical
Contact Resistance
Center contact: 2.0 m Ω
Body: 2.0 m Ω
Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling
Cable retention: 6kgf typical
Durability: 500 Cycles Min.
Coupling nut retention: 18kgf Min.
Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel
Center contact Male: Brass,gold Plating
Center contact Female: Beryllium copper,gold Plating
Insulator: PTFE
Gasket: Silicone rubber
Crimp Ferrule: Annealed copper



Cable Type:RG-316,174,188;Q1,D316

ORDER INFORMATION

Product No. : KLS1-SMA014

Pos. NO.

Part NO.

SMA Connector Series

KLS1-SMA015 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance: Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

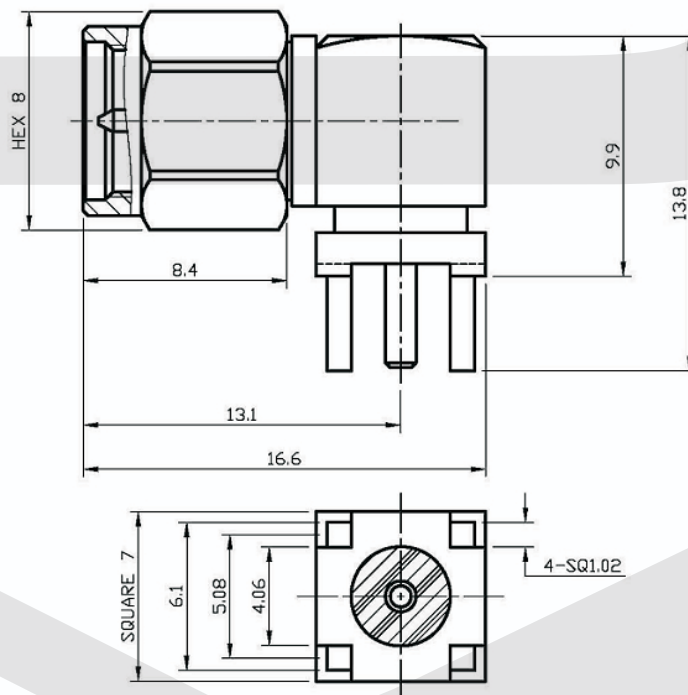
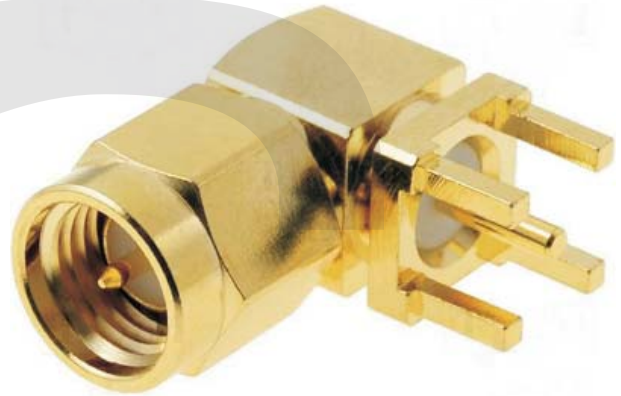
Center contact Male: Brass,gold Plating

Center contact Female: Beryllium copper,gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



ORDER INFORMATION

Product NO.: KLS1-SMA015

Pos. NO. _____

SMA Connector Type _____

SMA Connector Series

KLS1-SMA016 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance: Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C



Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

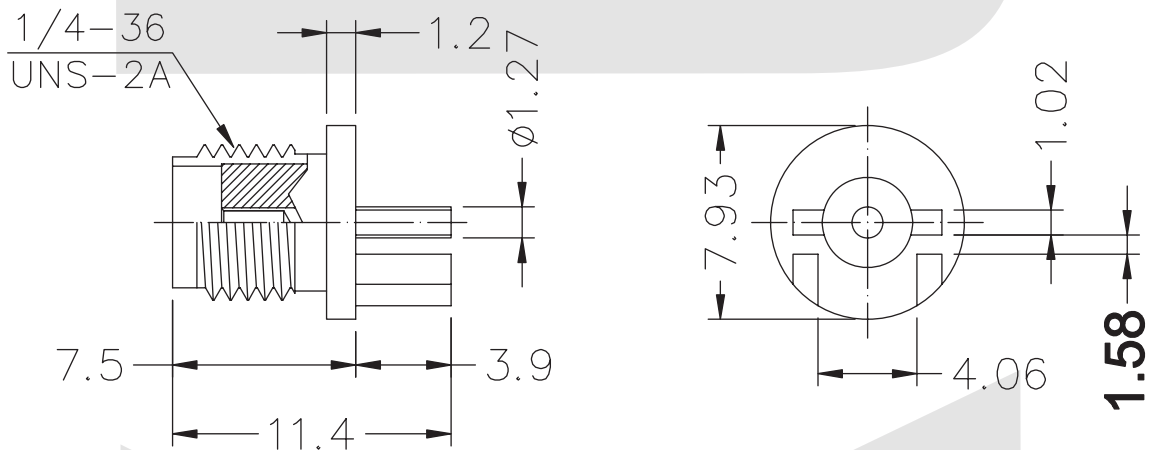
Center contact Male: Brass,gold Plating

Center contact Female: Beryllium copper,gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



ORDER INFORMATION

Product NO.: KLS1-SMA016

Pos. NO. _____

SMA Connector Type _____

SMA Connector Series

KLS1-SMA017 SMA Connector Series

Electrical Specifications

Impedance: 50 Ω

Frequency Range

Semi-rigid cable: 0-18 GHz

Flexible cables: 0-12.4 GHz

Voltage Rating : 335 volts rms.

Dielectric Withstanding Voltage : 500 volts rms.

VSWR :

1.15 +0 .02 f (GHz) for Straight connector typical

1.25 +0 .025 f (GHz) for Right angle connector typical

Contact Resistance: Center contact: 2.0 m Ω

Body: 2.0 m Ω

Insulation Resistance: 5,000 M Ω

Mechanical Specifications

Mating: 1/4"-36 UNS thread coupling

Cable retention: 6kgf typical

Durability: 500 Cycles Min.

Coupling nut retention: 18kgf Min.

Temperature Range: - 55°C to +155°C

Material

Connector body: Brass per QQ-B-626 ,gold Plating or nickel

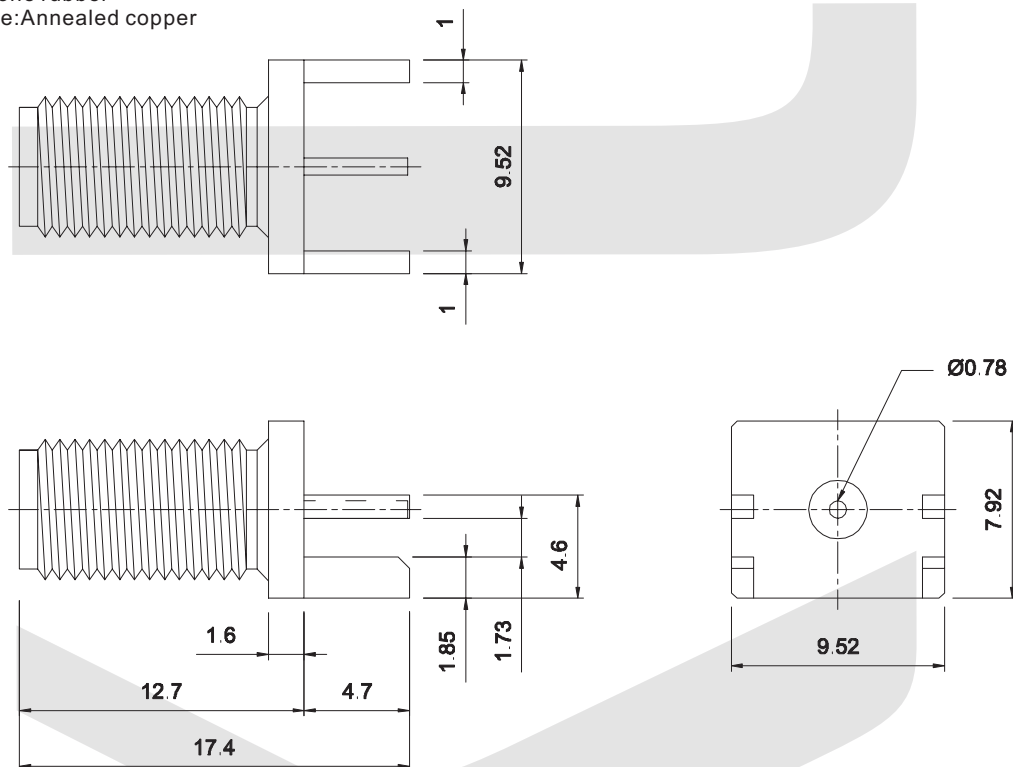
Center contact Male: Brass, gold Plating

Center contact Female: Beryllium copper, gold Plating

Insulator: PTFE

Gasket: Silicone rubber

Crimp Ferrule: Annealed copper



ORDER INFORMATION

Product NO.: KLS1-SMA017

Pos. NO. _____

SMA Connector Type _____