



Connectors

Standard Series

CATALOGUE DIRECTORY

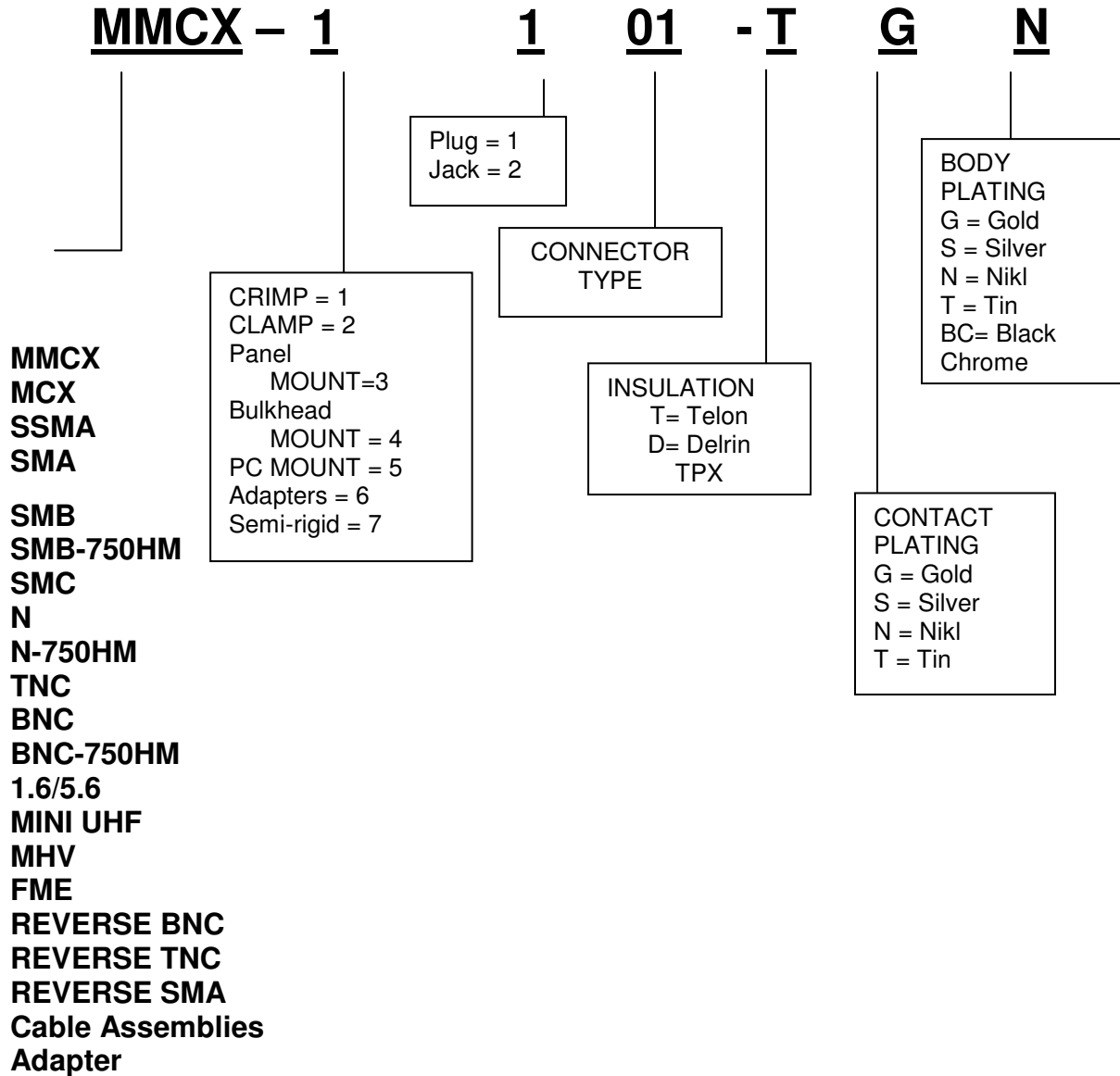
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Please send your inquiry to the Sales Partner near you or directly to:

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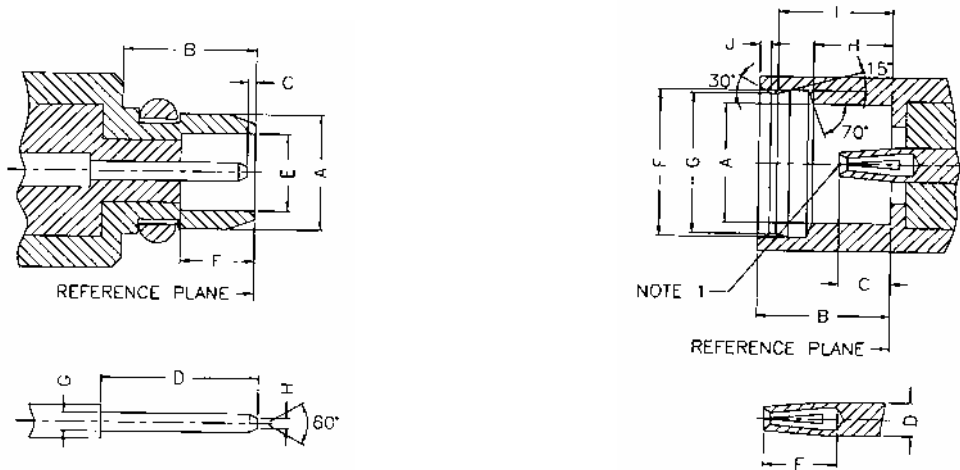
CONNECTOR CODING KEY



MMCX

Specification

INTERFACE MATING DIMENSIONS:



PLUG		
Letter	Millimeters	
	Minimum	Maximum
A	-	2.40
B	2.70	-
C	0.00	0.25
D	-	3.15
E	1.58	1.62
F	1.45	-
G	0.38	0.42
H	-	0.20

JACK		
Letter	Millimeters	
	Minimum	Maximum
A	2.41	-
B	2.60	-
C	0.90	1.20
D	0.68	0.72
E	1.40	-
F	3.00	3.04
G	2.87	2.90
H	1.57	1.63
I	2.30	2.34
J	-	0.23

Electrical:

Impedance	50 ohm
Frequency Range	0 to 6.0 Ghz
VSWR	0 – 4 Ghz = 1.2 max (straight) 1.25 max (right angle) 4 – 6 GHz = 1.25 max (atraingt) 1.4 max (right angle)
Dielectric Withstanding Voltage	500 V Rms min. at sea level
Contact Resistance	center contact = 5.0 Milliohms max outer contact = 2.5 Milliohms max
RF Leakage	-60 dB min
Insertion Loss	.4 dB max (straight) .6 dB max (right angle)
Insulation Resistance	1,000 Megohms min

Mechanical & Environmental:

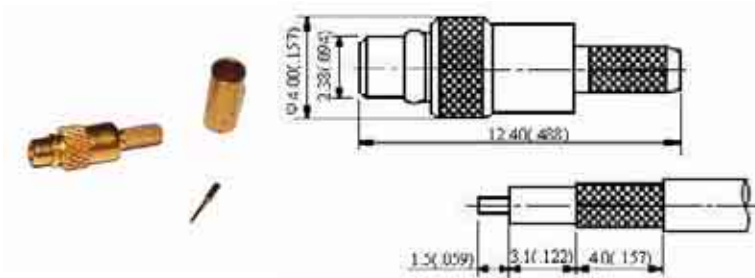
Mating	"Push-pull" snap-on coupling
Durability	500 matings
Cable Retention	RG – 174, 188, 316 – 20 lbs min
Temperature Range	-40 °C to 90 °C

Temperature shock	MIL-STD-202 Method 107
Humidity	MIL-STD-202 Method 103

Material:

	Material	Plating
Connector Body	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Beryllium Copper	Gold
Insulation	Teflon	None
Crimp Ferrule	Annealed Copper	Same as Body

Straight Plug Crimp (MMCX)

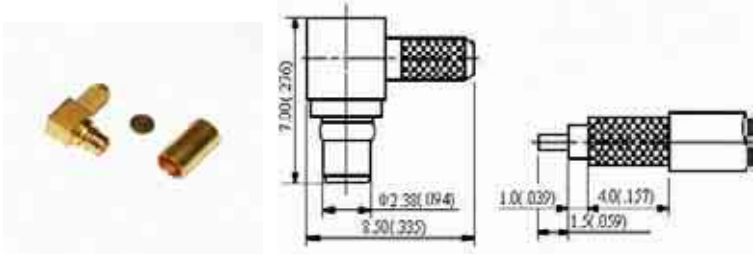


PART NO.	APPLICABLE CABLE RG/U
MMCX-1101-TGG	178, 196
MMCX-1102-TGG	174, 188, 316
MMCX-1103-TGG	RD 316u

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug Crimp (MMCX)

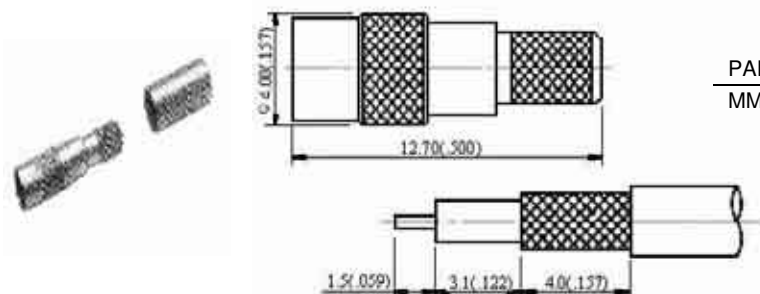


PART NO.	APPLICABLE CABLE RG/U
MMCX-1105-TGG	178, 196
MMCX-1106-TGG	174, 188, 316
MMCX-1107-TGG	RD 316u

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Jack Crimp (MMCX)

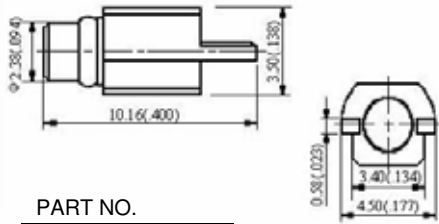


PART NO.	APPLICABLE CABLE RG/U
MMCX-1204-TGG	174, 188, 316

Description:
Flexible Cable-Crimp Attachment

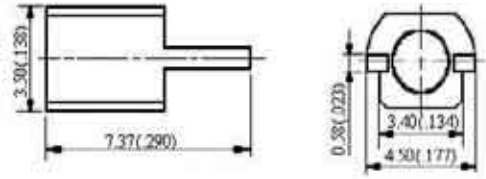
Finish: Gold plated center contact & body
Insulation: Teflon

Straight Edgecard Plug (MMCX)



PART NO.
MMCX-5101-TGG

Straight Edgecard Jack (MMCX)

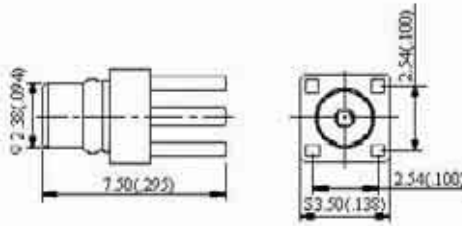


PART NO.
MMCX-5204-TGG

Description:
Edgecard Mount

Finish: Gold plated center contact & body
Insulation: Teflon

Straight PCB Mount Jack (MMCX)

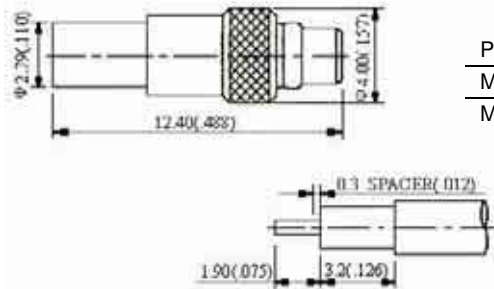


PART NO.
MMCX-5105-TGG

Description:
Edgecard Mount

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Plug (MMCX)

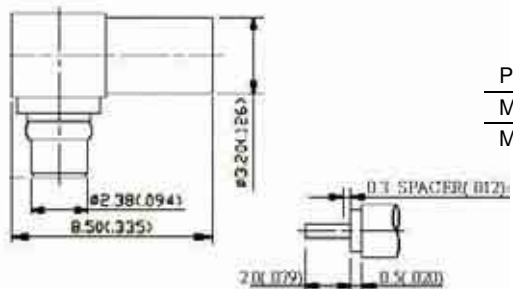


PART NO.	APPLICABLE CABLE RG/U
MMCX-7101-TGG	.086"
MMCX-7102-TGG	0.47"

Description:
Direct solder for Semi-Rigid Cable

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug (MMCX)



PART NO.	APPLICABLE CABLE RG/U
MMCX-7103-TGG	.086"
MMCX-7104-TGG	0.47"

Description:
Direct solder for Semi-Rigid Cable

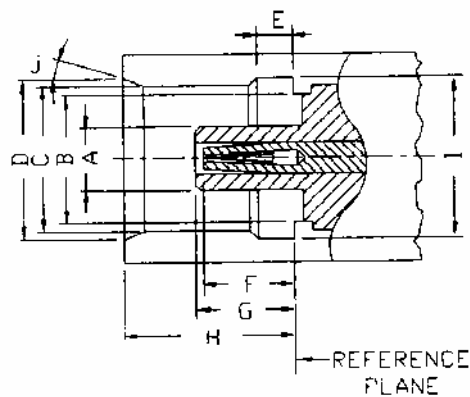
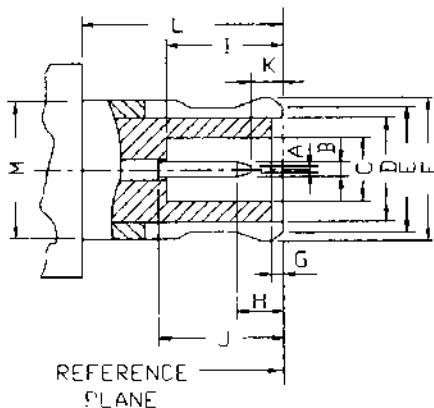
Finish: Gold plated center contact & body
Insulation: Teflon

MCX

50 ohm 0 – 6 GHz

MCX microminiature connectors provide repeatable performance from DC to 6 GHz. The design of these devices have taken into consideration the need for size reduction, low weight, durability and reliable performance. The MCX devices enable a 30% space reduction over similar SMB/SMC types. The MCX is available for affixment to industry standard cable and as a printed circuit board device. The “snap-on” connection feature between devices offer the user ease of assembly in dense packaging layouts. Applications for the MCX are those where size, Weight, performance and ease of assembly are the driving considerations to the final design decision. Typically, these include GPS, wireless communications (WLAN and mobile) and automotive.

INTERFACE DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	0.25 (.010)
B	0.48 (.019)	0.53 (.021)
C	2.00 (.079)	2.07 (.0815)
D	-	3.00 (.118)
E	-	3.60 (.142)
F	3.63 (.143)	3.80 (.150)
G	0.00 (.000)	0.30 (.012)
H	-	1.20 (.047)
I	2.80 (.110)	3.20 (.126)
J	2.80 (.110)	3.20 (.126)
K	0.15 (.006)	-
L	4.15 (.163)	-
M	-	3.40 (.134)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	1.80 (.079)	1.98 (.078)
B	-	3.00 (.118)
C	3.42 (.135)	3.48 (.137)
D	3.80 (.150)	-
E	0.75 (.029)	0.85 (.033)
F	2.30 (.090)	2.80 (.110)
G	2.60 (.102)	2.80 (.110)
H	4.00 (.157)	4.12 (.162)
I	3.60 (.142)	3.80 (.150)
J	18°	22°

Electrical:

Impedance	50 ohm
Frequency Range	0 to 6.0 GHz
VSWR	0 – 2 GHz = 1.22 max (straight) 1.50 max (right angle) 2 – 6 GHz = 1.35 max (straight)

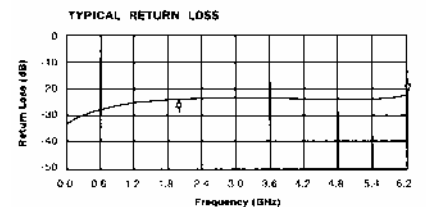
	1.63 max (right angle)
Dielectric Withstanding Voltage	RG – 174, 188, 316 → 750 volts rms max RG – 178, 196 → 500 vltms rms max
Contact Resistance	center contact = 5.0 Milliohms max outer contact = 2.5 milliohms max
RF Leakage	-60 dB min
Insertion Loss	.4 dB max (straight) .6 dB max (right angle)
Insulation Resistance	1,000 Megohms min

Mechanical & Environmental:

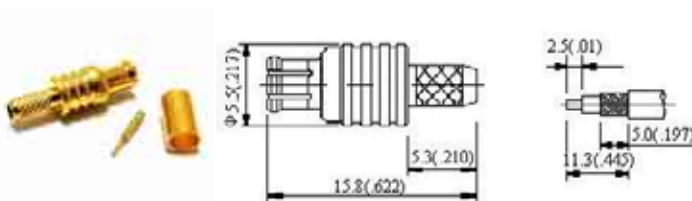
Mating	“Push-pull” snap-on coupling
Durability	500 matings
Cable Retention	RG – 174, 188, 316 → 20 lbs min
Temperature Range	-65 °C to 165 C°
Vibration	MIL-STD-202 Method 204 Test Cond. B.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.
Temperature Cycling	MIL-STD-1344 Method 1003 Test Cond. A.

Material:

	Material	Plating
Connector Body	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Beryllium Copper	Gold
Insulation	Teflon	None
Crimp Ferrule	Annealed Copper	Same as Body



Straight Plug Crimp (MCX)

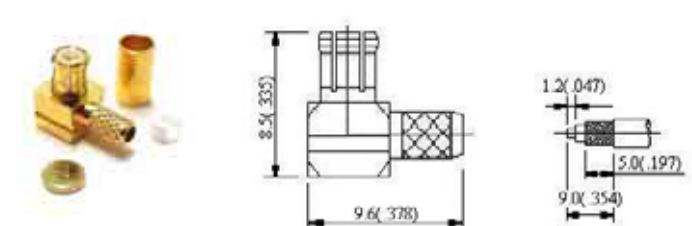


PART NO.	APPLICABLE CABLE RG/U
MCX-1101-TGG	174, 188A, 316
MCX-1102-TGG	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug Crimp (MCX)

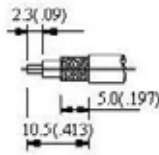
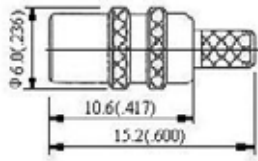


PART NO.	APPLICABLE CABLE RG/U
MCX-1105-TGG	174, 188A, 316
MCX-1106-TGG	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Jack Crimp (MCX)

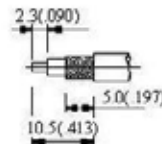
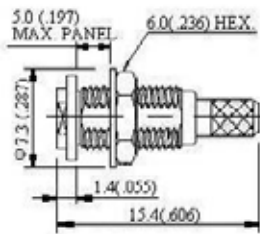


PART NO.	APPLICABLE CABLE RG/U
MCX-1203-TGG	174, 188A, 316
MCX-1204-TGG	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Crimp (MCX)

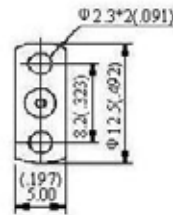
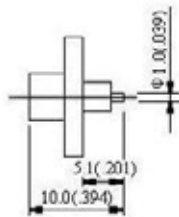


PART NO.	APPLICABLE CABLE RG/U
MCX-1207-TGG	174, 188A, 316
MCX-1208-TGG	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

2 Holes Flange Jack Receptacle (Exposed Teflon) (MCX)

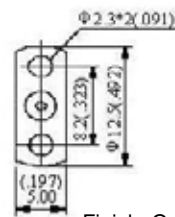
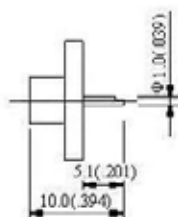


PART NO.
MCX-3201-TGG

Description:
Panel Mount Receptacle

Finish: Gold plated center contact & body
Insulation: Teflon

2 Holes Flange Jack Receptacle (Solder Pot Contact) (MCX)

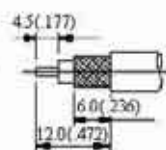
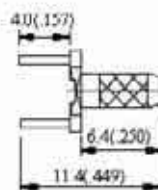


PART NO.
MCX-3202-TGG

Description:
Panel Mount Receptacle

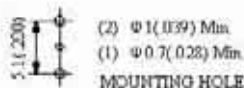
Finish: Gold plated center contact & body
Insulation: Teflon

PCB Cable Terminal-Crimp Type (MCX)



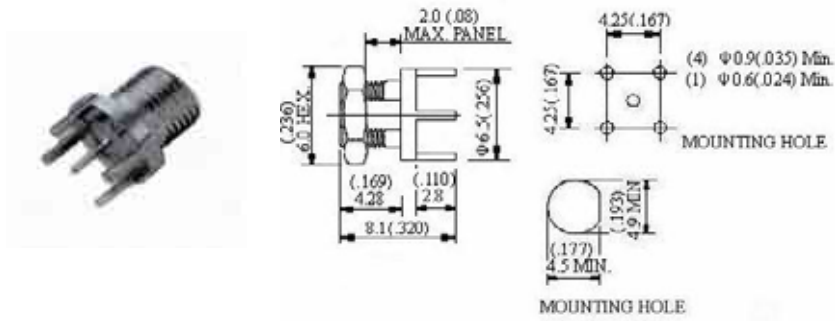
PART NO.
MCX-5004-G

Description:
Printed Circuit Board Receptacles



Finish: Gold plated

Straight PCB Mount Bulkhead Jack Receptacle (MCX)

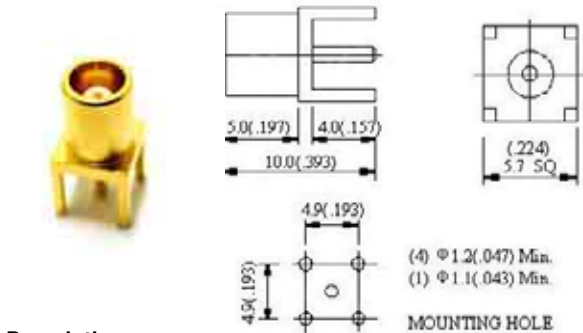


PART NO. _____
MCX-5201-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Straight PCB Mount Jack Receptacle (MCX)

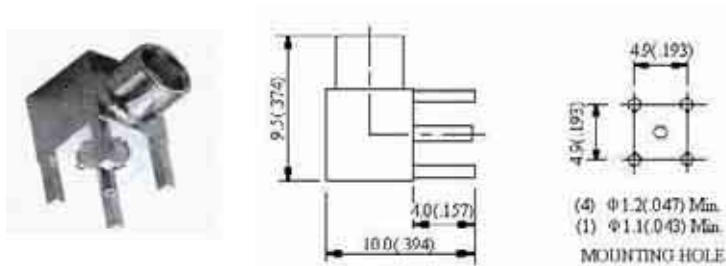


PART NO. _____
MCX-5202-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle PCB Mount Jack Receptacle (MCX)

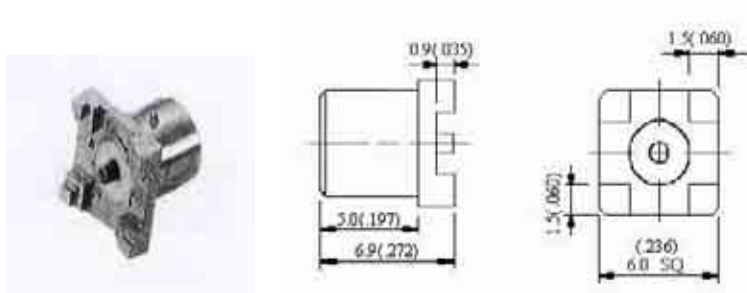


PART NO. _____
MCX-5203-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Surface Mount Jack Receptacle (MCX)

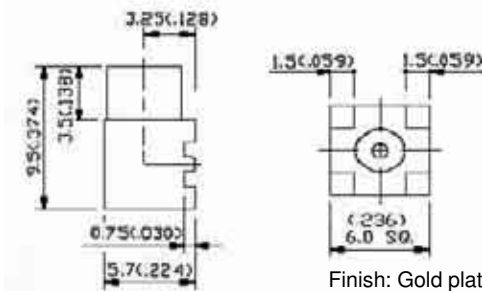


PART NO. _____
MCX-5205-TGG

Description:
Surface Mount Receptacle

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Surface Mount Jack Receptacle (MCX)

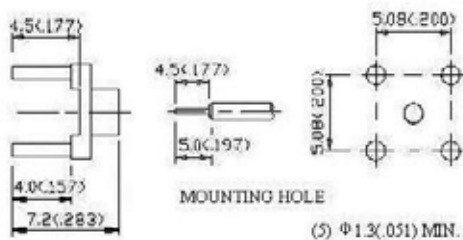


PART NO. _____
MCX-5206-TGG

Description:
Surface Mount Receptacle

Finish: Gold plated center contact & body
Insulation: Teflon

PCB Cable Terminal (MCX)



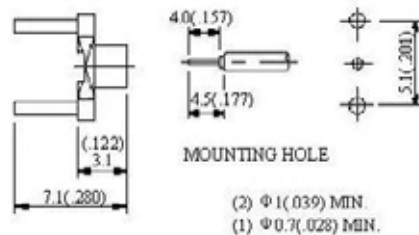
PART NO. _____
MCX-7003-G

APPLICABLE CABLE RG/U
RG405/u(.085")

Description:
For Semi-Rigid Cable
(.085" Direct Solder Attachment)

Finish: Gold plated
Insulation: Teflon

PCB Cable Terminal (MCX)



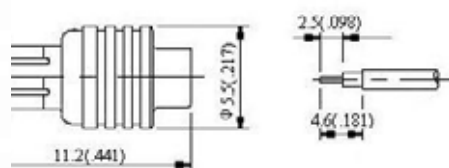
PART NO. _____
MCX-7004-G

APPLICABLE CABLE RG/U
RG405/u(.085")

Description:
For Semi-Rigid Cable
(.085" Direct Solder Attachment)

Finish: Gold plated

Straight Plug (MCX)



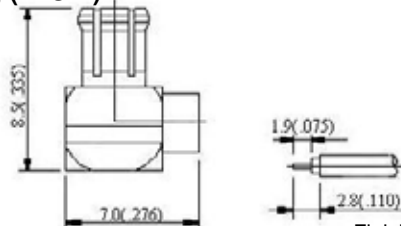
PART NO. _____
MCX-7101-TGG

APPLICABLE CABLE RG/U
RG405/u(.085")

Description:
For Semi-Rigid Cable
(.085" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Angle Plug (MCX)



PART NO. _____
MCX-7102-TGG

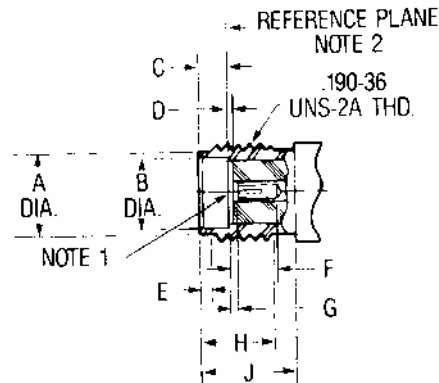
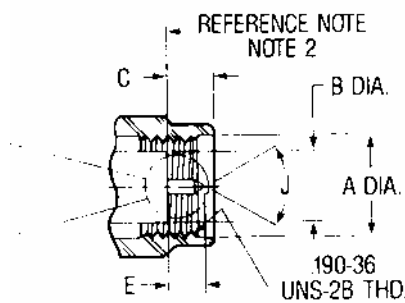
APPLICABLE CABLE RG/U
RG405/u(.085")

Description:
For Semi-Rigid Cable
(.085" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

SSMA

INTERFACE MATING DIMENSIONS:



PLUG		
Letter	Inches (Millimeters) ³	
	Minimum	Maximum
A	.196 (4.98)	.202 (5.13)
B	.124 (3.15)	.1268 (3.221)
C	.100 (2.54)	.133 (3.38)
D	.000 (0.00)	.007 (0.25)
E	.050 (1.27)	.065 (1.65)
F	.000 (0.00)	.010 (0.25)
G	.0195 (0.495)	.0208 (0.528)
H	.000 (0.00)	.010 (0.25)
J	70°	95°

JACK		
Letter	Inches (Millimeters) ³	
	Minimum	Maximum
A	.153 (3.89)	.160 (4.06)
B	.127 (3.23)	.130 (3.30)
C	.075 (1.91)	.077 (1.96)
D	.000 (0.00)	.007 (0.25)
E	.020 (0.51)	.040 (1.02)
F	.075 (1.91)	-
G	.000 (0.00)	.010 (.025)
H	.190 (4.83)	.210 (5.33)
J	.203 (5.84)	-

Electrical:

Impedance	50 ohm
Frequency Range	<ul style="list-style-type: none"> for RG - 405 semi-rigid cable – 0 to 40.0 GHz for flexible cable → max operation frequency to 0 – 26 GHz
VSWR	1.3 max 0 – 26 GHz 1.6 max 26 – 40 GHz
Dielectric Withstanding Voltage	RG 405 (.085" OD.) → 750 volts rms max RG – 174, 188, 316 → 750 volts rms max RG – 178, 196 → 500 volts rms max
Contact Resistance	center contact = 2.0 Milliohms max outer contact = 2.0 milliohms max
RF Leakage	-(90 – f GHz) db min
Insertion Loss	.04 dB maximum X √f GHz (straight) .06 dB maximum X √f GHz (right angle)
Insulation Resistance	5,000 Megohms min

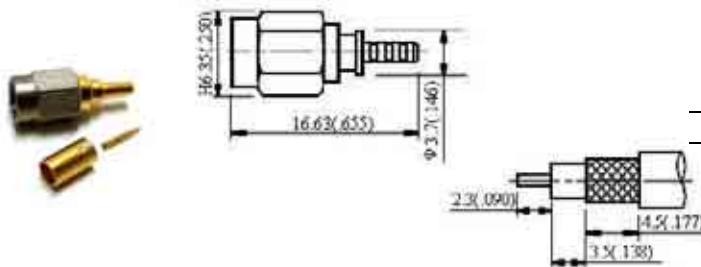
Mechanical & Environmental:

Mating	10 – 36 threaded coupling
Durability	500 matings
Coupling Nut Retention	Min 60 lbs
Recommend Nut Mating Torque	7 to 8 in-lbs
Temperature Range	-65 °C to 155 °C
Vibration	MIL-STD-202 Method 204 Test Cond. D.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.
Temperature Cycling	MIL-STD-202 Method 102 Test Cond. D.

Material:

	Material	Plating
Connector Body	Stainless steel Type 303 Beryllium Copper	Passivated or gold Nickel or gold
Center Contact	Male: Brass Female: Beryllium Copper	Gold
Insulation	Teflon	None
Gasket	Silicon Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Staright Plug (SSMA)

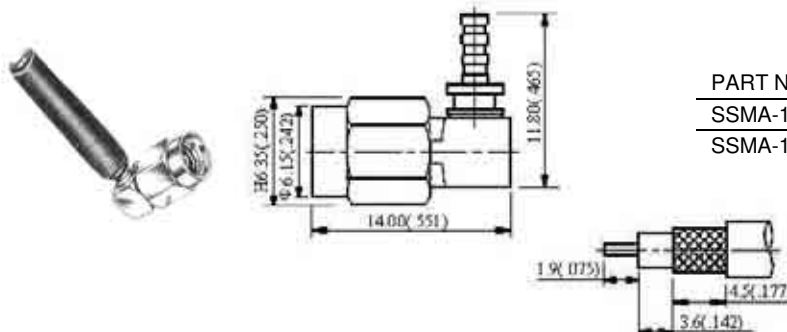


PART NO.	APPLICABLE CABLE RG/U
SSMA-1101-TGG	178, 196
SSMA-1102-TGG	174, 188, 316

Description:
For Flexible Cable

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug (SSMA)

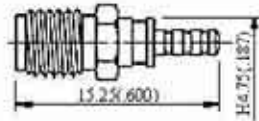


PART NO.	APPLICABLE CABLE RG/U
SSMA-1105-TGG	178, 196
SSMA-1106-TGG	174, 188, 316

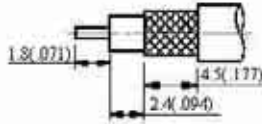
Description:
For Flexible Cable

Finish: Gold plated center contact & body
Insulation: Teflon

Staright Jack (SSMA)



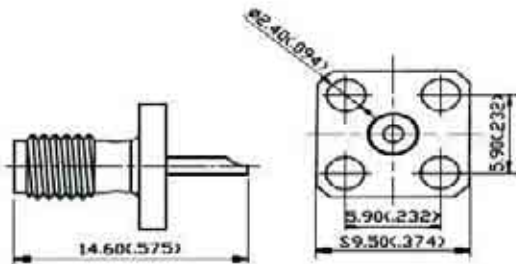
PART NO.	APPLICABLE CABLE RG/U
SSMA-1203-TGG	178, 196
SSMA-1204-TGG	174, 188, 316



Description:
For Flexible Cable

Finish: Gold plated center contact & body
Insulation: Teflon

Flange Mount Jack Receptacle (SSMA)

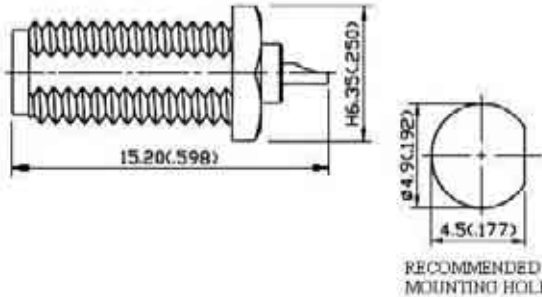


PART NO.
SSMA-3201-TGG
SSMA-3202-TGG

Description:
Panel Mount Receptacle

Finish: Gold plated center contact & body
Insulation: Teflon

Bulkhead Feedthrough Jack Receptacle (SSMA)

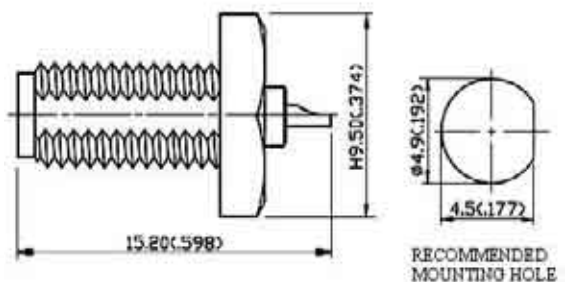


PART NO.
SSMA-4201-TGG

Description:
Bulkhead Mount Receptacle

Finish: Gold plated center contact & body
Insulation: Teflon

Bulkhead Feedthrough Jack Receptacle (SSMA)

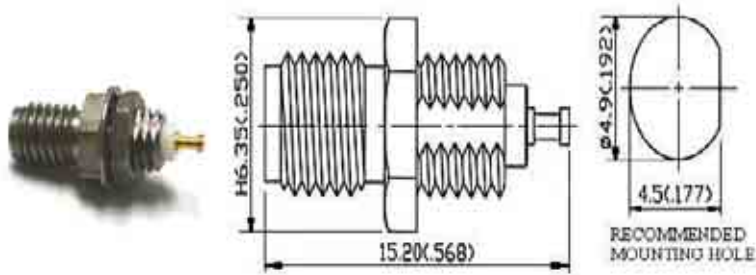


PART NO.
SSMA-4202-TGG

Description:
Bulkhead Mount Receptacle

Finish: Gold plated center contact & body
Insulation: Teflon

Bulkhead Feedthrough Jack Receptacle (SSMA)

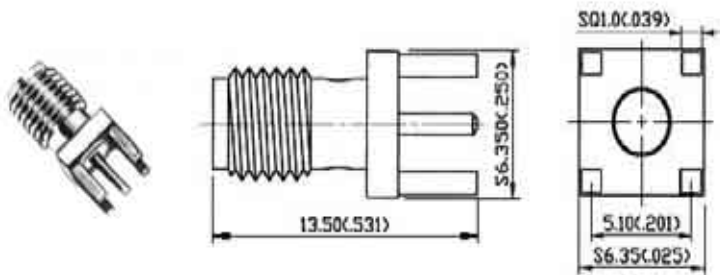


PART NO.
SSMA-4203-TGG

Description:
Bulkhead Mount Receptacle

Finish: Gold plated center contact & body
Insulation: Teflon

Staright Jack (SSMA)

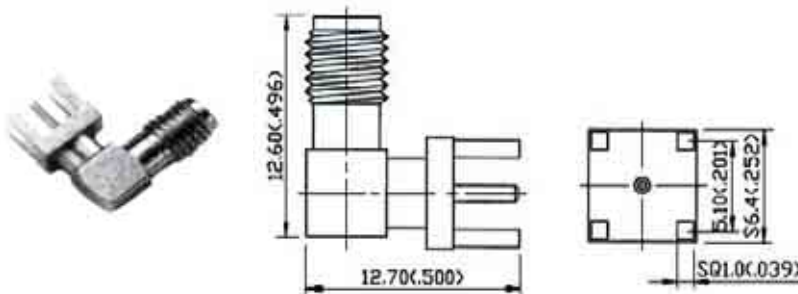


PART NO.
SSMA-5201-TGG

Description:
Printed Circuit Boards

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Jack (SSMA)

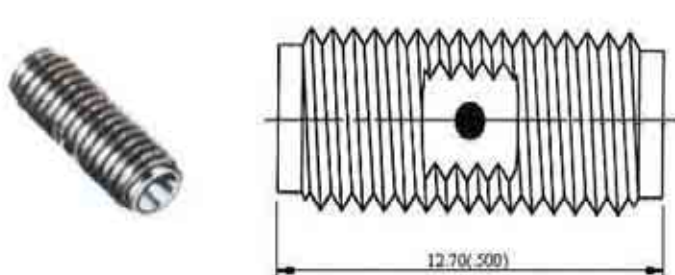


PART NO.
SSMA-5202-TGG

Description:
Printed Circuit Boards

Finish: Gold plated center contact & body
Insulation: Teflon

Jack to Jack (SSMA)

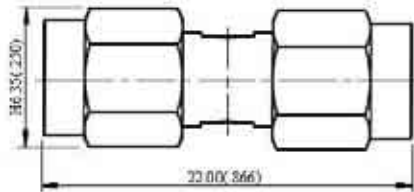


PART NO.
SSMA-601-TGG

Description:
In-Series Adapters

Finish: Gold plated center contact & body
Insulation: Teflon

Plug to Plug (SSMA)

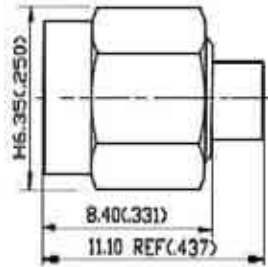


PART NO.
SSMA-602-TGG

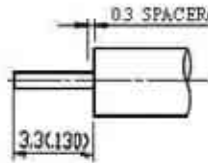
Description:
In-Series Adapters

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Plug With Center Contact (SSMA)



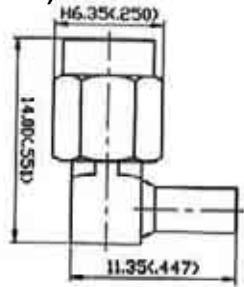
PART NO.	APPLICABLE CABLE RG/U
SSMA-7101-TGG	RG 405/u (.085")



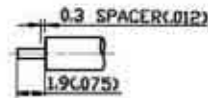
Description:
For Semi-Rigid Cable

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug (SSMA)



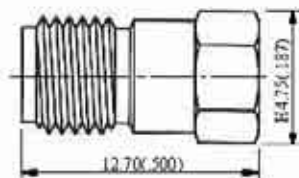
PART NO.	APPLICABLE CABLE RG/U
SSMA-7105-TGG	RG 405/u (.085")



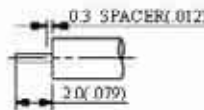
Description:
For Semi-Rigid Cable

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Jack With Center Contact (SSMA)



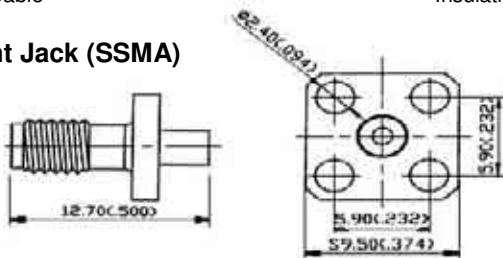
PART NO.	APPLICABLE CABLE RG/U
SSMA-7202-TGG	RG 405/u (.085")



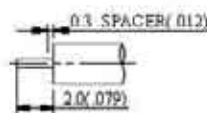
Description:
For Semi-Rigid Cable

Finish: Gold plated center contact & body
Insulation: Teflon

Flange Mount Jack (SSMA)



PART NO.	APPLICABLE CABLE RG/U
SSMA-7204-TGG	RG 405/u (.085")



Description:
For Semi-Rigid Cable

Finish: Gold plated center contact & body
Insulation: Teflon

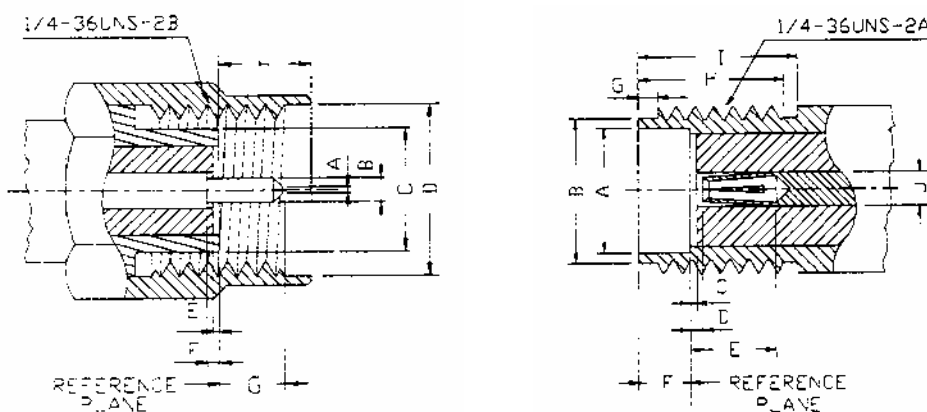
SMA

50 ohm 0 – 18 GHz

SMA connectors are semi-precision, subminiature devices that provide repeatable electrical performance from DC to 12.4 GHz with flexible cable. Semi-rigid cabling extends the frequency range of the device to 18 GHz. These devices offer broadband performance with low reflection and constant 50 ohm impedance. These properties, along with minimum attenuation and low VSWR have made the SMA extremely popular in the microwave community.

The SMA design has been broadened to accommodate many interconnect requirements and is available in pressure crimp, clamp and solder terminal attachments. SMA design parameters have incorporated the considerations of balancing cost, size, weight and performance to yield the best value in your microwave systems. Among typical applications are components such as dividers, mixers, amplifiers, trimmers and attenuators. SMA connectors are also used to provide interconnections from printed circuit board striplines to coaxial cable.

INTERFACE MATING DIMENSIONS:



Letter	PLUG	
	Millimeters (Inches)	
	Minimum	Maximum
A	0.00 (.000)	0.38 (.015)
B	0.90 (.0355)	0.94 (.037)
C	-	4.59 (1808)
D	6.35 (.250)	-
E	0.00 (.000)	0.18 (.007)
F	0.00 (.000)	0.25 (.010)
G	-	2.54 (.100)
H	-	3.43 (.135)

Letter	JACK	
	Millimeters (Inches)	
	Minimum	Maximum
A	4.60 (.1810)	4.67 (.1837)
B	5.28 (.208)	5.49 (.216)
C	0.00 (.000)	0.18 (.007)
D	0.00 (.000)	0.25 (.010)
E	2.92 (.115)	-
F	1.88 (.074)	1.98 (.078)
G	0.38 (.015)	1.14 (.045)
H	4.32 (.170)	-
I	5.54 (.218)	-
J	1.24 (.049)	1.30 (.051)

Electrical:

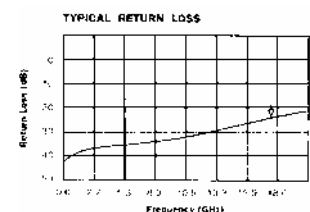
Impedance	50 ohm
Frequency Range	0 to 18.0 GHz <ul style="list-style-type: none"> for RG – 402 & RG 405 semi-rigid cable – 0 to 18.0 GHz for flexible cable → max operation frequency of cable per MIL-C-17
VSWR	<ul style="list-style-type: none"> 1.05 + 0.005 x f GHz max (straight) 1.15 + 0.015 x f GHz max (right angle) RG – 402 (.141" OD.) → 1.05 + 0.005 x f GHz max RG – 405 (.085" OD.) → 1.05 + 0.005 x f GHz max RG – 58, 141, 142, 223 → 1.10 + 0.01 x f GHz max (straight) 1.15 + 0.02 x f GHz max (right angle) RG – 174, 188, 316 → 1.15 + 0.01 x f GHz max (straight) 1.18 + 0.02 x f GHz max (right angle) RG – 178, 196 → 1.20 + 0.020 x f GHz max (straight) 1.25 + 0.025 x f GHz max (right angle)
Voltage Rating	<ul style="list-style-type: none"> RG – 402 (.141" OD.) → 500 volts rms max RG – 405 (.085" OD.) → 335 volts rms max RG – 58, 141, 142, 223 → 500 volts rms max RG – 174, 188, 316 → 335 volts rms max RG – 178, 196 → 250 volts rms max
Dielectric Withstanding Voltage	<ul style="list-style-type: none"> RG – 402 (.141" OD.) → 1,000 volts rms max RG – 405 (.085" OD.) → 750 volts rms max RG – 58, 141, 142, 223 → 1,000 volts rms max RG – 174, 188, 316 → 750 volts rms max RG – 178, 196 → 500 volts rms max
Contact Resistance	center contact = 3.0 Milliohms max outer contact = 2.0 Milliohm max
RF Leakage	- (90 – f GHz) dB min
Insertion Loss	.04 dB maximum x √f GHz (straight) .06 dB maximum x √f GHz (right angle)
Insulation Resistance	5,000 Megohms min

Mechanical & Environmental:

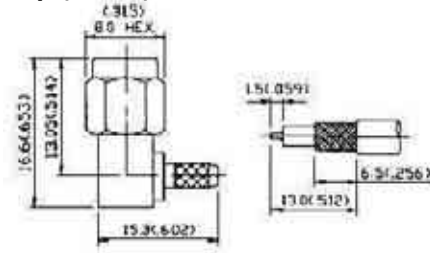
Mating	1/4" – 36 threaded coupling
Durability	500 matings
Coupling Nut Retention	Min 60 lbs
Recommend Nut Mating Torque	8 inch-pounds
Cable Retention	RG – 58, 141, 142, 223 → 40 lbs min RG – 174, 188, 316 → 20 lbs min
Temperature Range	-65 °C to 165 °C
Vibration	MIL-STD-202 Method 204 Test Cond. D.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.
Temperature Cycling	MIL-STD-202 Method 102 Test Cond. C.

Material:

	Material	Plating
Connector Body	Stainless steel Brass	Passivated or gold Nickel or gold
Center Contact	Male: Brass Female: Beryllium Copper	Gold
Insulation	Teflon	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body



Right Angle Plug Crimp (SMA)

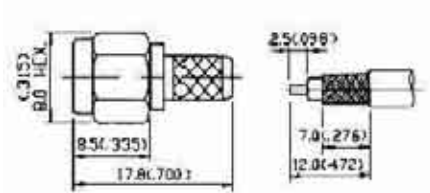


PART NO.	APPLICABLE CABLE RG/U
SMA-1101-TGG	58, 58A, 141A
SMA-1102-TGG	174, 188A, 316
SMA-1103-TGG	142B/U

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Plug Crimp (SMA)

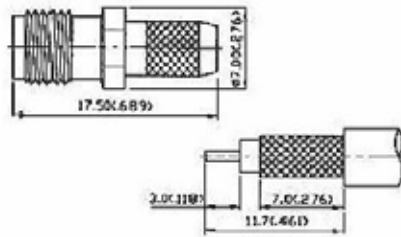


PART NO.	APPLICABLE CABLE RG/U
SMA-1104-TGG	58, 58A, 141A
SMA-1105-TGG	174, 188A, 316
SMA-1106-TGG	142B/U

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Crimp (SMA)

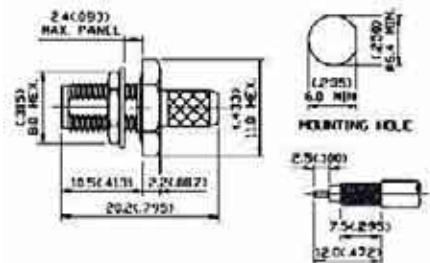


PART NO.	APPLICABLE CABLE RG/U
SMA-1207-TGG	58, 58A, 141A
SMA-1208-TGG	174, 188A, 316
SMA-1209-TGG	142B/U

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Crimp (SMA)

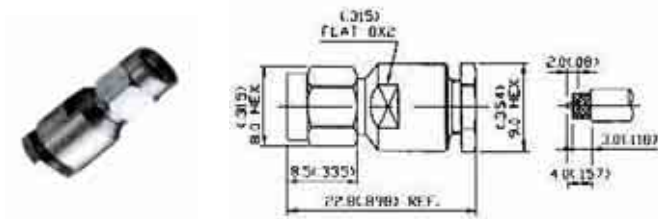


PART NO.	APPLICABLE CABLE RG/U
SMA-1210-TGG	58, 58A, 141A
SMA-1211-TGG	174, 188A, 316
SMA-1212-TGG	142B/U

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Plug Clamp (SMA)

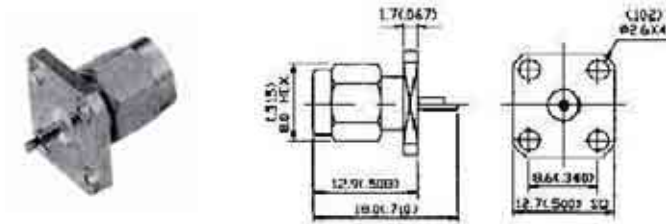


PART NO.	APPLICABLE CABLE RG/U
SMA-2101-TGG	58, 58A, 141A
SMA-2102-TGG	174, 188A, 316
SMA-2103-TGG	142B/U

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Square Flange Plug Receptacle (Solder Pot Contact) (SMA)



Description:
Panel Mount Receptacles (Solder Pot Contact)

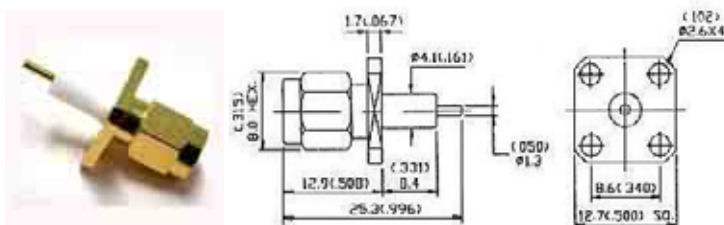
Finish: Gold plated center contact & body
Insulation: Teflon

Square Flange Plug Receptacle
PART NO.
SMA-3101-TGG

2 Holes Flange Plug Receptacle
PART NO.
SMA-3103-TGG

Square Flange Plug Receptacle (For Microstrip Line Circuits)
PART NO.
SMA-3112-TGG

Square Flange Plug Receptacle (Exposed Teflon) (SMA)



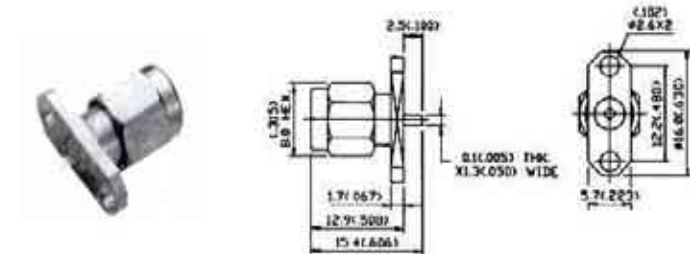
Description:
Panel Mount Receptacles (Exposed Teflon)

Finish: Gold plated center contact & body
Insulation: Teflon

Square Flange Plug Receptacle
PART NO.
SMA-3105-TGG

2 Holes Flange Plug Receptacle
PART NO.
SMA-3107-TGG

2 Holes Flange Plug Receptacle (Tab Contact)(SMA)



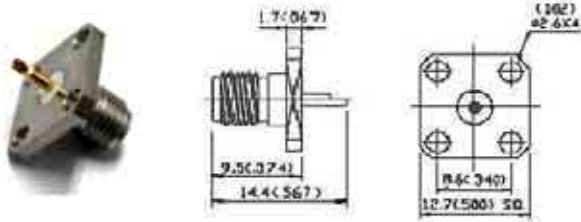
Description:
Panel Mount Receptacles
Tab Contact

Finish: Gold plated center contact & body
Insulation: Teflon

2 Holes Flange Plug Receptacle Tab Contact
PART NO.
SMA-3110-TGG

2 Holes Flange Plug Receptacle
PART NO.
SMA-3114-TGG

Square Flange Jack Receptacle (Solder Pot Contact) (SMA)



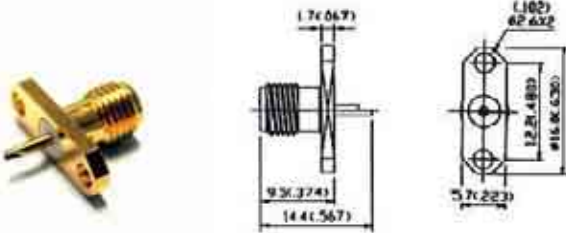
Description:
Panel Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

Square Flange Jack Receptacle
PART NO.
SMA-3202-TGG

Square Flange Jack Receptacle (Tab Contact)
PART NO.
SMA-3209-TGG

2 Holes Flange Jack Receptacle (Solder Pot Contact) (SMA)

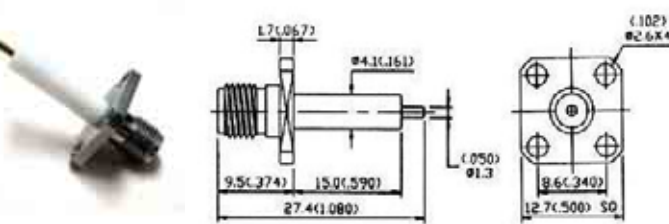


Description:
Panel Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

PART NO.
SMA-3204-TGG

Square Flange Jack Receptacle (Exposed Teflon) (SMA)

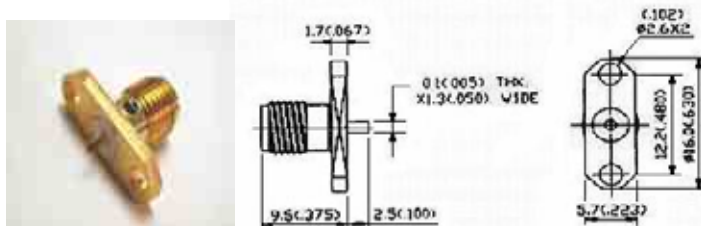


Description:
Panel Mount Receptacles (Exposed Teflon)

Finish: Gold plated center contact & body
Insulation: Teflon

PART NO.
SMA-3206-TGG

2 Holes Flange Jack Receptacle (Tab Contact) (SMA)

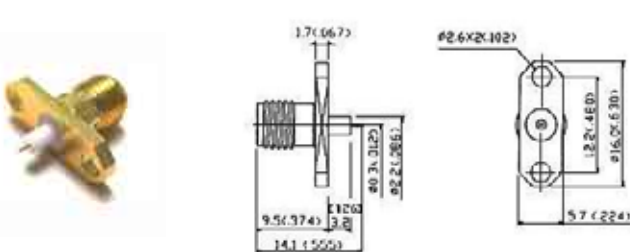


Description:
Panel Mount Receptacles (Tab Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

PART NO.
SMA-3211-TGG

2 Holes Flange Jack Receptacle (For Microstrip Line Circuits) (SMA)

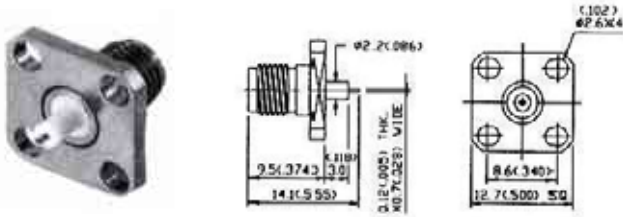


Description:
Panel Mount Receptacles (For Microstrip Line Circuits)

Finish: Gold plated center contact & body
Insulation: Teflon

PART NO.
SMA-3215-TGG

Square Flange Jack Receptacle (For Microstrip Line Circuits) (SMA)



Square Flange Jack Receptacle
PART NO. _____

SMA-3216-TGG

2 Holes Flange Jack Receptacle
PART NO. _____

SMA-3217-TGG

Contact horizontal to panel

SMA-3218-TGG

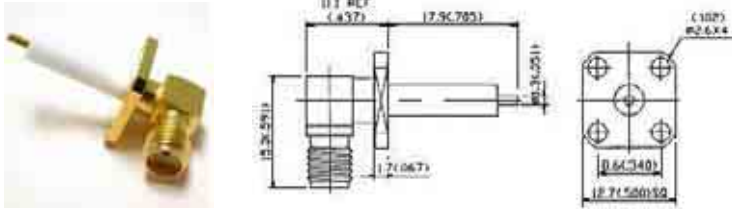
Contact vertical to panel

Description:
contact & body
Panel Mount Receptacles (For Microstrip Line Circuits)

Finish: Gold plated center

Insulation: Teflon

Right Angle Square Flange Jack Receptacle (Exposed Teflon)(SMA)



Right Angle Square Flange Jack Receptacle
PART NO. _____

SMA-3219-TGG

Right Angle 2 Holes Flange Jack Receptacle
PART NO. _____

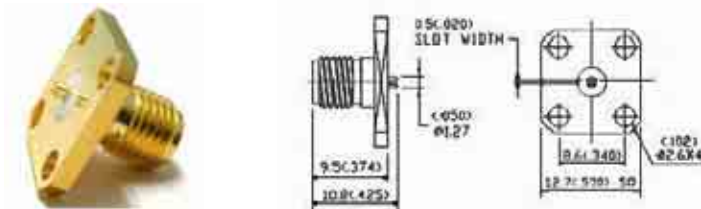
SMA-3220-TGG

Description:
Panel Mount Receptacles (Exposed Teflon)

Finish: Gold plated center contact & body

Insulation: Teflon

Square Flange Jack Receptacle (Slotted Contact) (SMA)



PART NO. _____

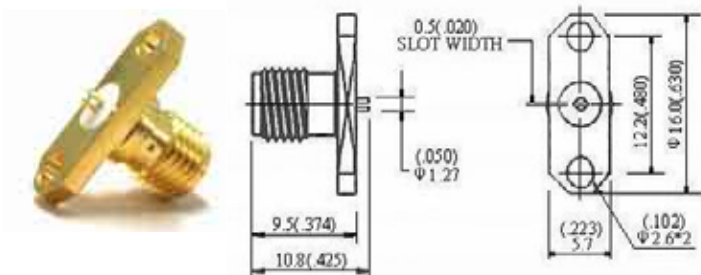
SMA-3221-TGG

Description:
Panel Mount Receptacles (Slotted Contact)

Finish: Gold plated center contact & body

Insulation: Teflon

2 Holes Flange Jack Receptacle (Slotted Contact) (SMA)



2 Holes Flange Jack Receptacle (Slotted Contact)
PART NO. _____

SMA-3222-TGG

2 Holes Flange Jack Receptacle (Half Round Contact)
PART NO. _____

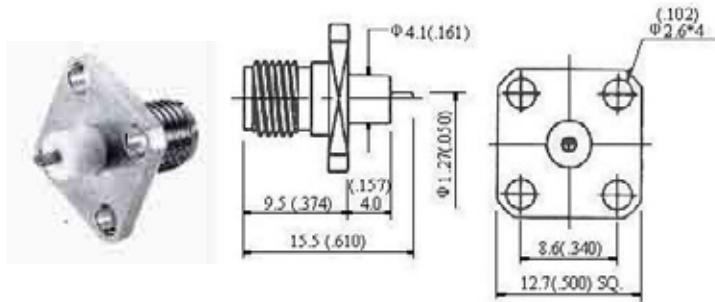
SMA-3224-TGG

Description:
Panel Mount Receptacles (Slotted Contact)

Finish: Gold plated center contact & body

Insulation: Teflon

Square Flange Jack Receptacle (Half Round Contact) (SMA)

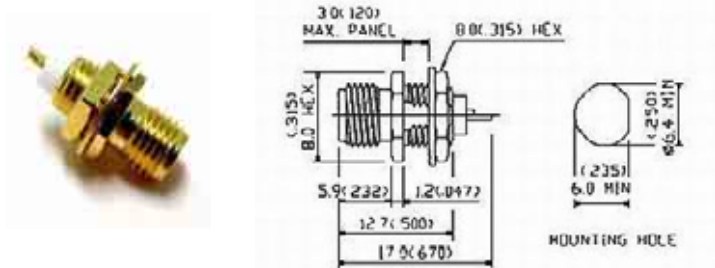


PART NO.
SMA-3223-TGG

Description:
Panel Mount Receptacles (Half Round Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (Front Mount)(SMA)

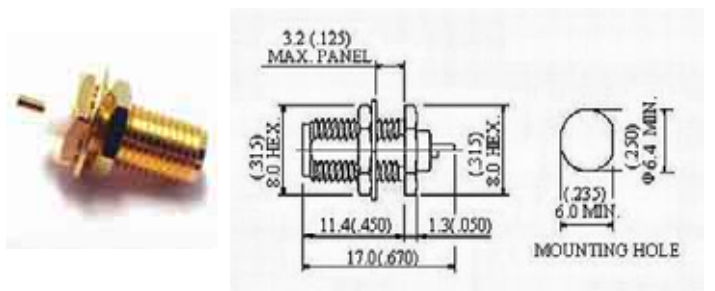


PART NO.
SMA-4201-TGG

Description:
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (Rear Mount)(SMA)

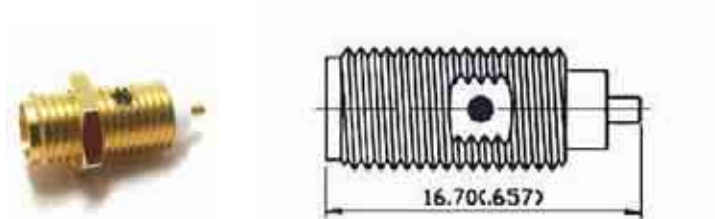


PART NO.
SMA-4202-TGG

Description:
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

Receptacles With Coaxial End (SMA)

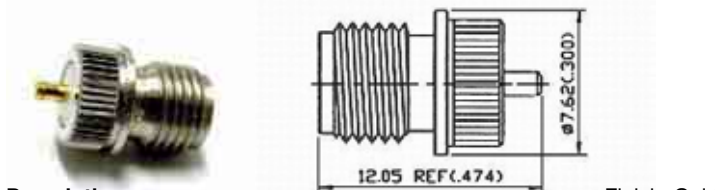


PART NO.
SMA-4203-TGG

Description:
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

Press Mount Receptacles (SMA)

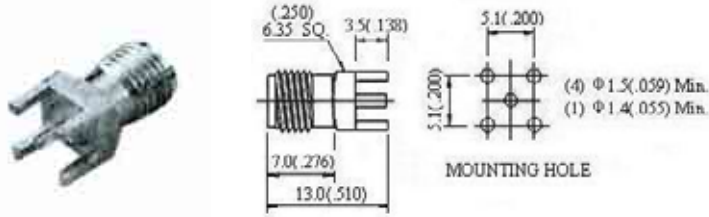


PART NO.
SMA-4204-TGG

Description:
Panel Mount Receptacles (For Microstrip Line Circuits)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight PCB Mount Jack Receptacle (SMA)

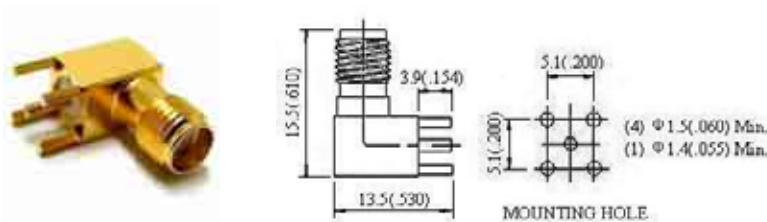


PART NO. _____
SMA-5201-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle PCB Mount Jack Receptacle (SMA)

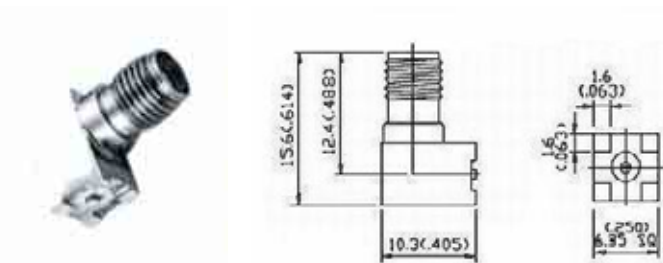


PART NO. _____
SMA-5202-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Surface Mount Jack Receptacle (SMA)

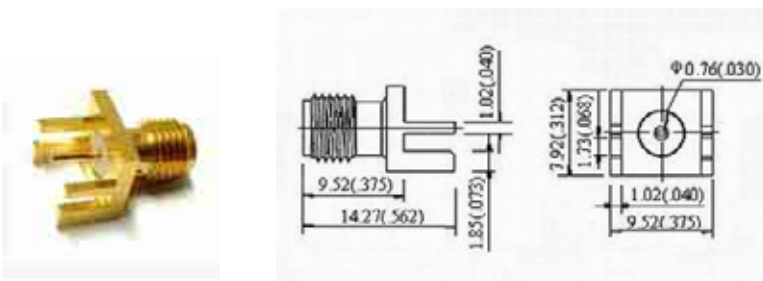


PART NO. _____
SMA-5204-TGG

Description:
Surface Mount Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

End Launch Jack Receptacle - Round Contact (SMA)

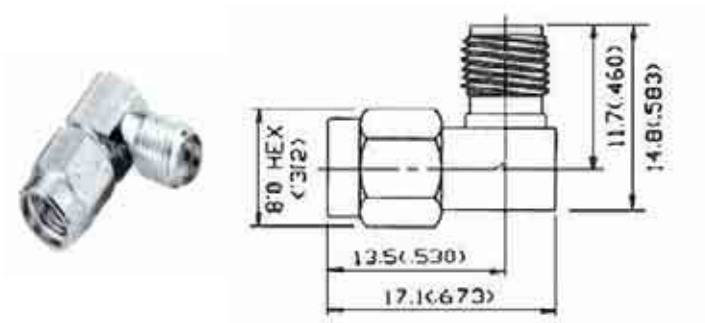


PART NO. _____
SMA-5205-TGG

Description:
Surface Mount Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug - Jack (SMA)

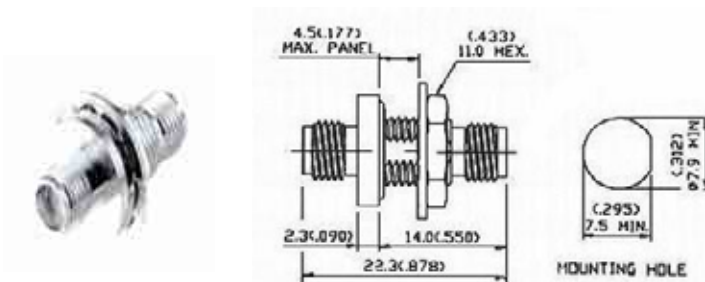


PART NO.
SMA-601-TGG

Description:
In-Series Adapters

Finish: Gold plated center contact & body
Insulation: Teflon

Bulkhead Jack - Jack (SMA)

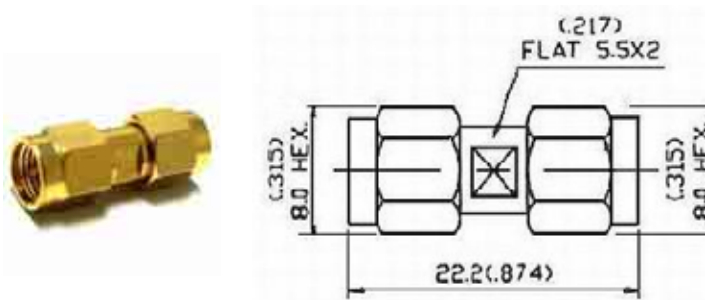


PART NO.
SMA-602-TGG

Description:
In-Series Adapters

Finish: Gold plated center contact & body
Insulation: Teflon

Plug - Plug (SMA)

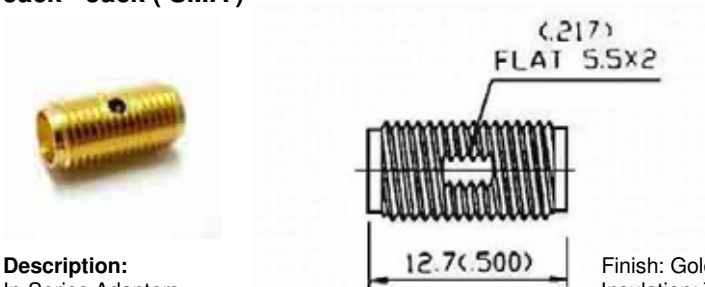


PART NO.
SMA-603-TGG

Description:
In-Series Adapters

Finish: Gold plated center contact & body
Insulation: Teflon

Jack - Jack (SMA)

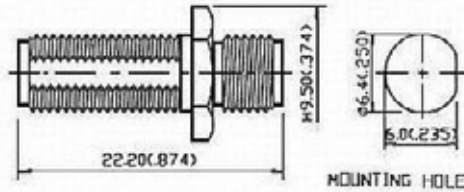


PART NO.
SMA-604-TGG

Description:
In-Series Adapters

Finish: Gold plated center contact & body
Insulation: Teflon

Jack - Jack Bulkhead (SMA)

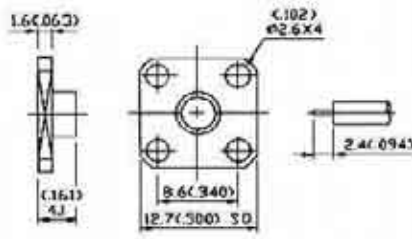


PART NO.	
	SMA-605-TGG

Description:
In-Series Adapters

Finish: Gold plated center contact & body
Insulation: Teflon

4 Holes Flange Cable Feed Through (SMA)



4 Holes Flange Cable Feed Through (SMA)

PART NO.	APPLICABLE CABLE RG/U
SMA-7014-G	RG 402/u (.141")
SMA-7015-G	RG 405/u (.085")

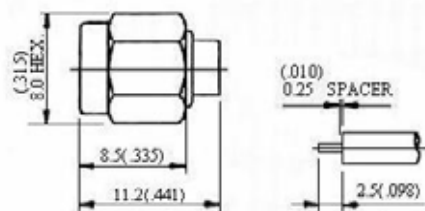
2 Holes Flange Cable Feed Through (SMA)

PART NO.	APPLICABLE CABLE RG/U
SMA-7016-G	RG 402/u (.141")
SMA-7017-G	RG 405/u (.085")

Description:
For Semi-Rigid Cable
(.085" and .141" Direct Solder Attachment)

Finish: Gold plated

Straight Plug (With Center Contact)(SMA)

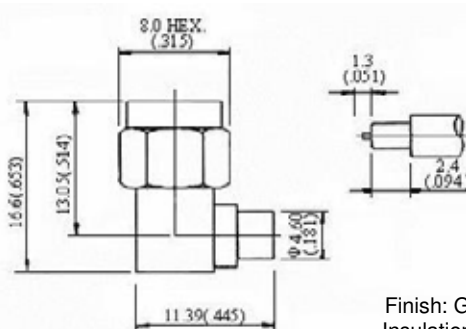


PART NO.	APPLICABLE CABLE RG/U
SMA-7101-TGG	RG 402/u (.141")
SMA-7102-TGG	RG 405/u (.085")

Description:
For Semi-Rigid Cable
(.085" and .141" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug (SMA)

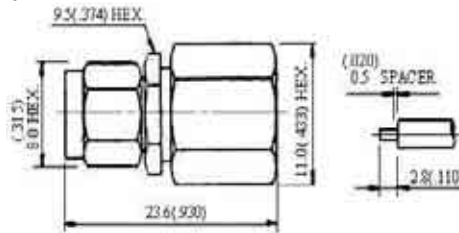


PART NO.	APPLICABLE CABLE RG/U
SMA-7111-TGG	RG 402/u (.141")
SMA-7112-TGG	RG 405/u (.085")

Description:
For Semi-Rigid Cable
(.085" and .141" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Plug (SMA)

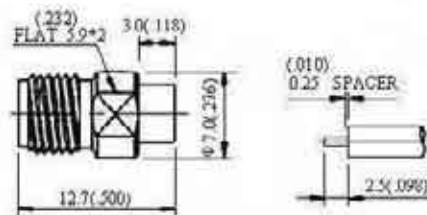


PART NO.	APPLICABLE CABLE RG/U
SMA-7113-TGG	RG 401/u (.250")

Description:
For Semi-Rigid Cable
(.025" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Jack (SMA)

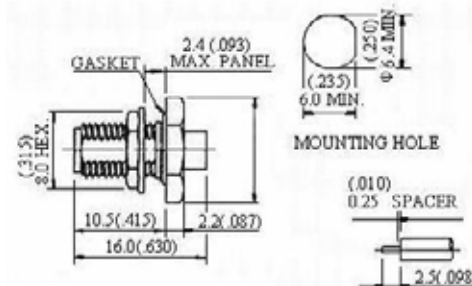


PART NO.	APPLICABLE CABLE RG/U
SMA-7203-TGG	RG 402/u (.141")
SMA-7204-TGG	RG 405/u (.085")

Description:
For Semi-Rigid Cable
(.085"and.141" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack (SMA)

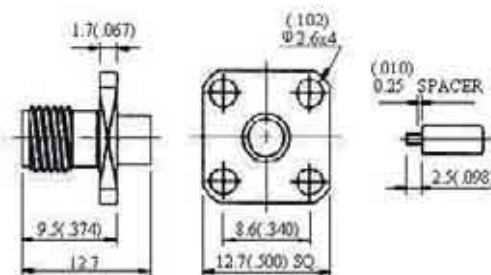


PART NO.	APPLICABLE CABLE RG/U
SMA-7205-TGG	RG 402/u (.141")
SMA-7206-TGG	RG 405/u (.085")

Description:
For Semi-Rigid Cable
(.085"and.141" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Square Flange Jack (SMA)



Straight Square Flange Jack

PART NO.	APPLICABLE CABLE RG/U
SMA-7207-TGG	RG 402/u (.141")
SMA-7208-TGG	RG 405/u (.085")

Straight 2 Hole Flange Jack

PART NO.	APPLICABLE CABLE RG/U
SMA-7209-TGG	RG 402/u (.141")
SMA-7210-TGG	RG 405/u (.085")

Description:
For Semi-Rigid Cable
(.085"and.141" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

SMB

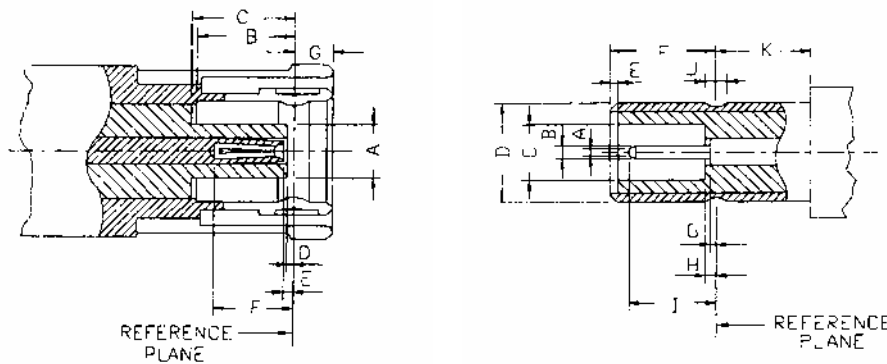
50 ohm 0 – 4 GHz

SMB connectors are semi-precision, subminiature devices that provide repeatable electrical performance to 4 GHz. the SMB family of connectors provide a means of quick-connect and disconnect through a snap-on type coupling.

Its smaller physical size and snap-on coupling make the SMB an ideal general purpose connector where pack-aging density, ease of mating/unmating and economy are prerequisites. Crimp, clamp and receptacle types are available in right angle, printed circuit board and straight body styles.

Typical applications for SMB connectors are telecommunications, test equipment, instrumentation and GPS.

INTERFACE MATING DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	2.01 (.079)	2.06 (.081)
B	3.58 (.141)	3.78 (.149)
C	3.58 (.141)	-
D	0.27 (.0105)	0.52 (.0205)
E	0.29 (.0115)	0.57 (.0225)
F	2.97 (.117)	-
G	-	1.63 (.064)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	0.25 (.010)
B	0.48 (.019)	0.53 (.021)
C	2.08 (.082)	2.16 (.085)
D	3.66 (.144)	3.71 (.146)
E	0.04 (.0015)	0.24 (.0095)
F	3.33 (.131)	3.53 (.139)
G	0.04 (.0015)	0.18 (.007)
H	-	0.18 (.007)
I	2.39 (.094)	2.72 (.107)
J	0.69 (.027)	0.94 (.037)
K	1.65 (.065)	-

Electrical:

Impedance	50 ohm
Frequency Range	0 to 4.0 GHz
VSWR	1.25 + 0,04 x f GHz max (straight) 1.30 + 0.04 x f GHz max (right angle) <ul style="list-style-type: none"> RG – 174, 188, 316 → 1.25 + 0.04 x f GHz max (straight) 1.3 + 0.04 x f GHz max (right angle) RG – 178, 196 → 1.3 + 0.04 x f GHz max (straight) 1.4 + 0.06 x f GHz max (right angle)
Voltage Rating	<ul style="list-style-type: none"> RG – 174, 188, 316 → 335 volts rms max RG – 178, 196 → 250 volts rms max

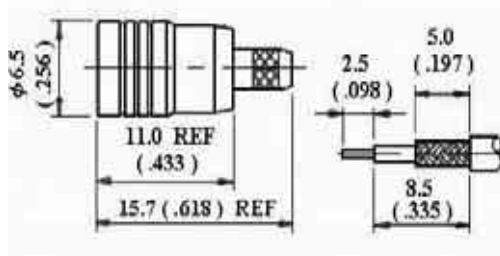
Dielectric Withstanding Voltage	<ul style="list-style-type: none"> RG – 174, 188, 316 → 750 volts rms max RG – 178, 196 → 500 volts rms max
Contact Resistance	center contact = 6.0 Milliohms max outer contact = 1.0 Milliohms max
RF Leakage	-55 dB min @ 3 GHz
Insertion Loss	.4 dB max (straight) .6 dB max (right angle)
Insulation Resistance	1,000 Megohms min

Mechanical & Environmental:

Mating	Snap-on coupling
Durability	500 matings
Coupling Nut Retention	40 lbs min
Cable Retention	RG – 174, 188, 316 → 20 lbs min RG – 178, 196 → 6 lbs min
Temperature Range	-65 °C to 165 °C
Vibration	MIL-STD-202 Method 204 Test Cond. B.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.
Temperature Cycling	MIL-STD-1344 Method 1003 Test Cond. A.

Material:

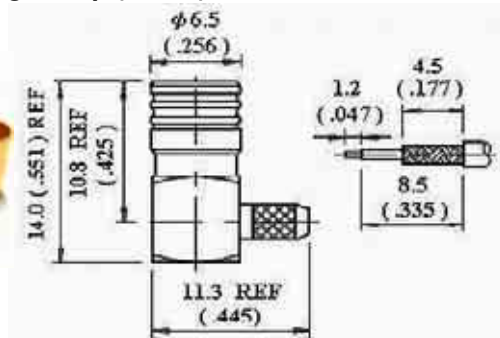
	Material	Plating
Connector Body	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Beryllium Copper	Gold
Insulation	Teflon	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Straight Plug Crimp (SMB)


PART NO.	APPLICABLE CABLE RG/U
SMB-1101-TGG	174, 188A, 316
SMB-1102-TGG	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

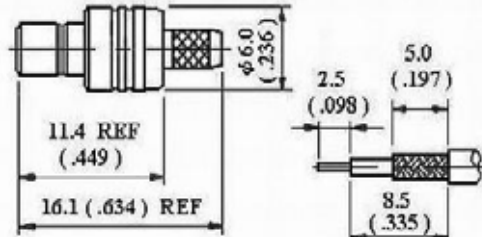
Right Angle Plug Crimp (SMB)


PART NO.	APPLICABLE CABLE RG/U
SMB-1107-TGG	174, 188A, 316
SMB-1108-TGG	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Jack Crimp (SMB)

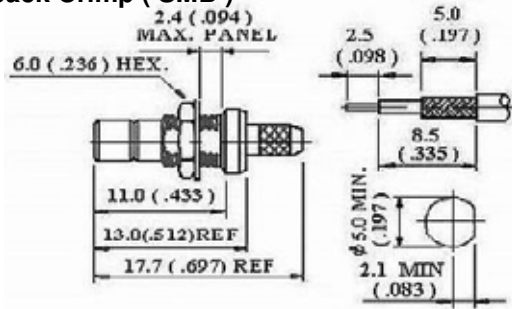


PART NO.	APPLICABLE CABLE RG/U
SMB-1203-TGG	174, 188A, 316
SMB-1204-TGG	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Crimp (SMB)

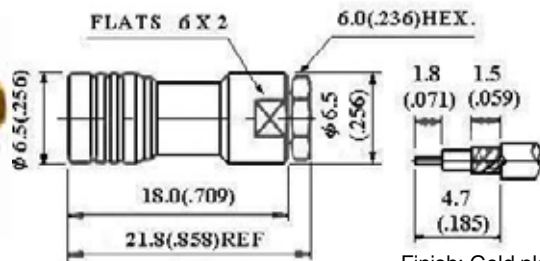


PART NO.	APPLICABLE CABLE RG/U
SMB-1205-TGG	174, 188A, 316
SMB-1206-TGG	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Plug Clamp (SMB)

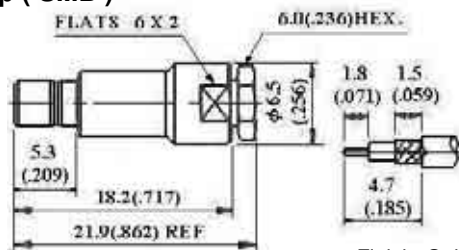


PART NO.	APPLICABLE CABLE RG/U
SMB-2101-TGG	174, 188A, 316
SMB-2102-TGG	178, 196

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Jack Clamp (SMB)

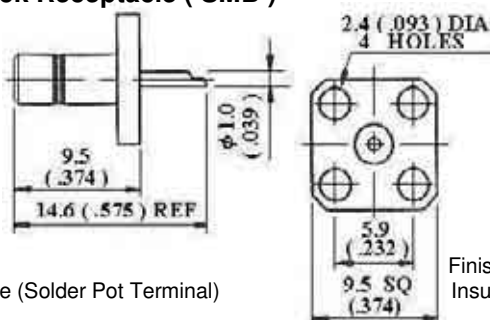


PART NO.	APPLICABLE CABLE RG/U
SMB-2103-TGG	174, 188A, 316
SMB-2104-TGG	178, 196

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Square Flange Jack Receptacle (SMB)

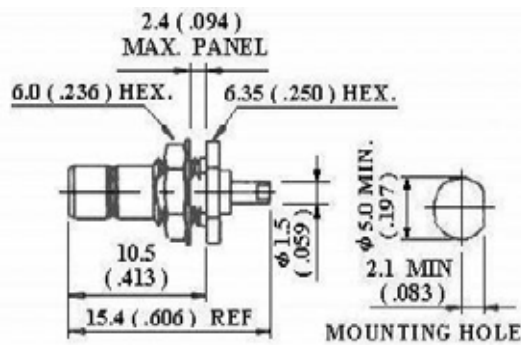


PART NO.
SMB-3201-TGG

Description:
Panel Mount Receptacle (Solder Pot Terminal)

Finish: Gold plated center contact & bod
Insulation: Teflon

Straight Bulkhead Jack Receptacle (Rear Mount) (SMB)

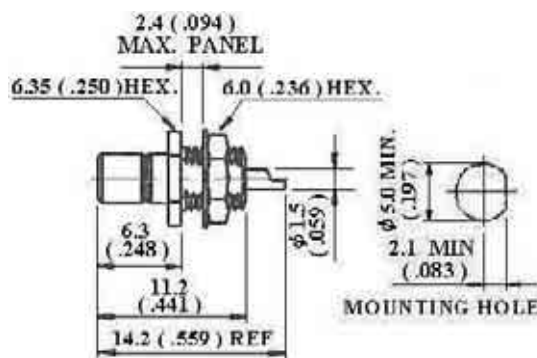


PART NO.
SMB-4201-TGG

Description:
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (Front Mount) (SMB)

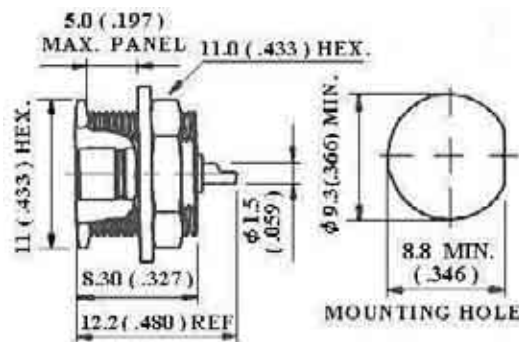


PART NO.
SMB-4202-TGG

Description:
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (Recessed Front Mount) (SMB)

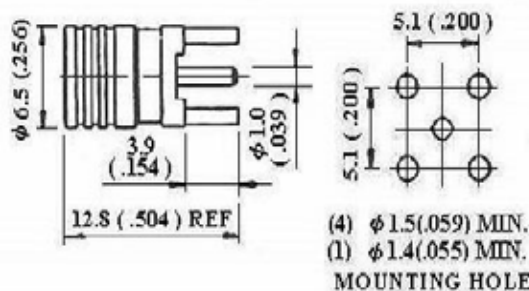


PART NO.
SMB-4203-TGG

Description:
Bulkhead Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

PCB Mount Plug Receptacle (SMB)

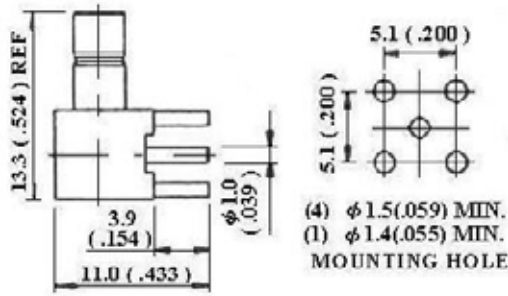


PART NO.
SMB-5102-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle PCB Mount Jack Receptacle (SMB)

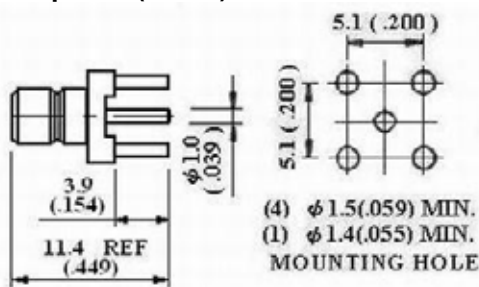


PART NO.
SMB-5201-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

PCB Mount Jack Receptacle (SMB)

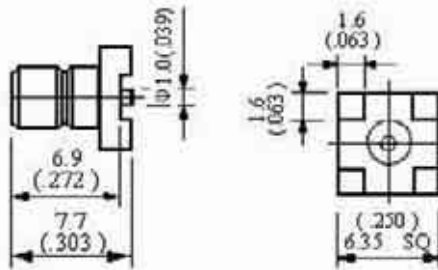


PART NO.
SMB-5203-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Surface Mount Receptacles



PART NO.
SMB-5204-TGG

Description:
Surface Mount Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

SMB PCB Bulkhead Jack Receptacle (SMB)

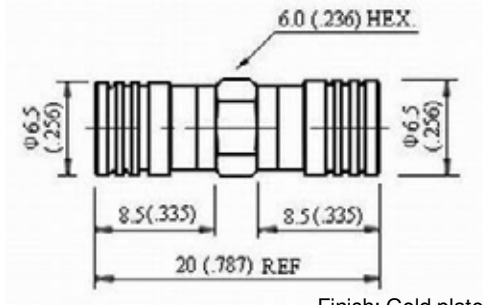


PART NO.
SMB-5205-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Plug-Plug (SMB)

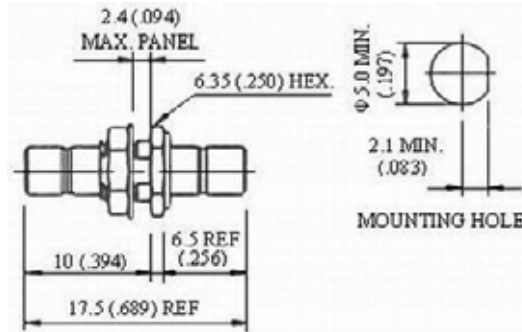


PART NO.
SMB-601-TGG

Description:
In-Series Adapters

Finish: Gold plated center contact & body
Insulation: Teflon

Bulkhead Jack-Jack (SMB)

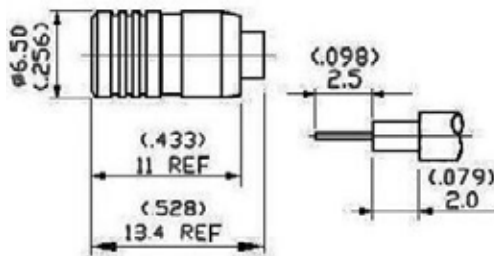


PART NO.
SMB-602-TGG

Description:
In-Series Adapters

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Plug (SMB)

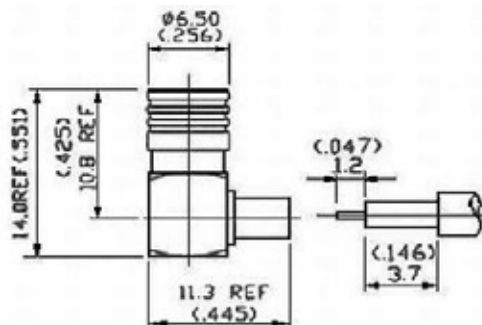


PART NO.	APPLICABLE CABLE RG/U
SMB-7101-TGG	405/U (.085)

Description:
For Semi-Rigid Cable
(.085" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug (SMB)



PART NO.	APPLICABLE CABLE RG/U
SMB-7102-TGG	405/U (.085)

Description:
For Semi-Rigid Cable
(.085" Direct Solder Attachment)

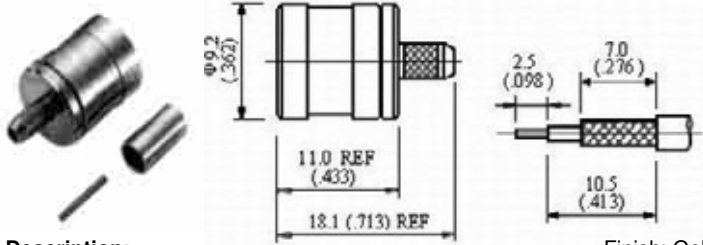
Finish: Gold plated center contact & body
Insulation: Teflon

75 ohm SMB



75 OHM SMB

Straight Plug Crimp (75 ohm SMB)

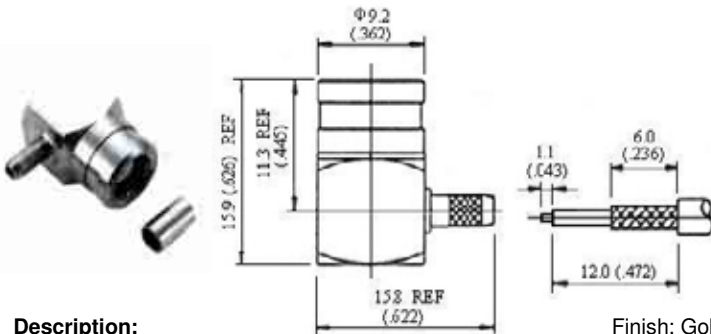


PART NO.	APPLICABLE CABLE RG/U
SMB75-1101-TGG	179B, 187A

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug Crimp (75 ohm SMB)

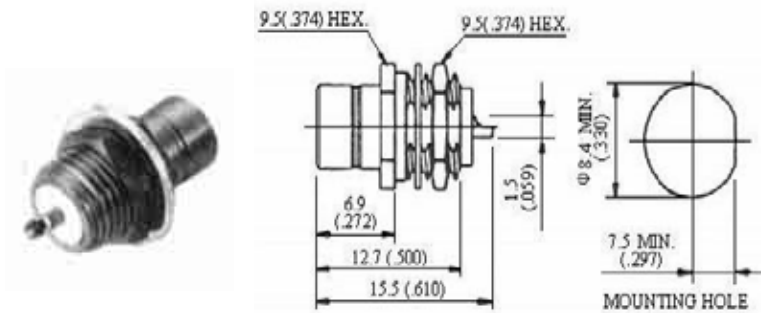


PART NO.	APPLICABLE CABLE RG/U
SMB75-1102-TGG	179B, 187A

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (75 ohm SMB)

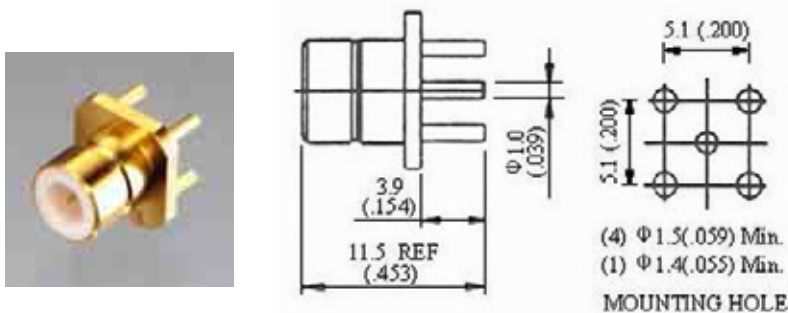


PART NO.
SMB75-4201-TGG

Description:
Bulkhead,PCB Mount Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Straight PCB Mount Jack Receptacle (75 ohm SMB)



PART NO.
SMB75-5201-TGG

Description:
Bulkhead,PCB Mount Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

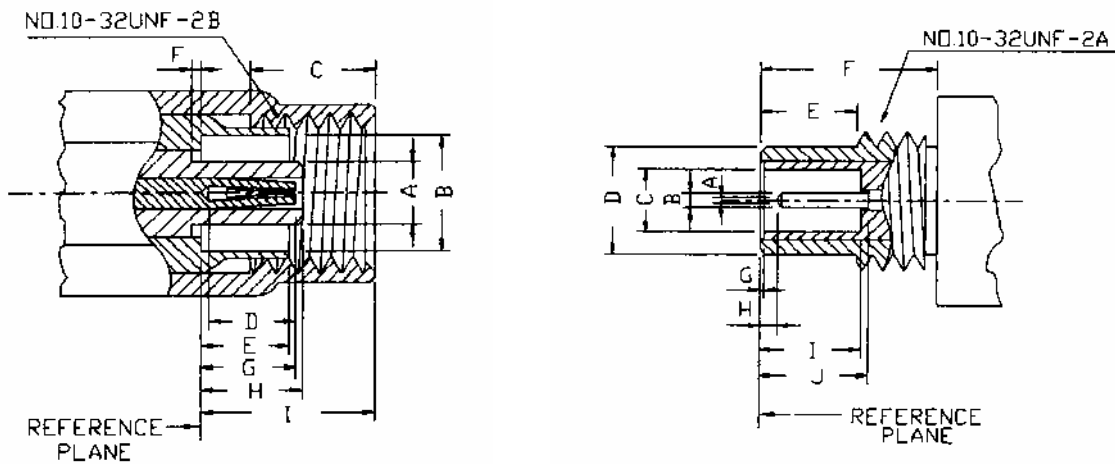
SMC

50 ohm 0 – 10 GHz

SMC connectors are similar to the SMB in general size and performance, but feature threaded couplings rather than snap-on types.

As with the SMB, its small size, reliable performance, and moderate cost make the SMC an excellent consideration where packaging density is a must. Its threaded coupling ensures peak performance in applications where vibration or shock may be a design consideration

INTERFACE MATING DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	2.01 (.079)	2.06 (.081)
B	3.73 (.147)	-
C	2.79 (.110)	-
D	2.79 (.110)	-
E	-	3.10 (.122)
F	0.00 (.000)	-
G	3.23 (.127)	3.40 (.134)
H	3.30 (.130)	3.40 (.134)
I	-	5.92 (.233)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	0.25 (.010)
B	0.48 (.019)	0.53 (.021)
C	2.08 (.082)	2.16 (.085)
D	3.66 (.144)	3.71 (.146)
E	3.12 (.123)	3.38 (.133)
F	5.94 (.234)	-
G	0.00 (.000)	-
H	0.79 (.031)	-
I	3.40 (.134)	3.61 (.142)
J	3.40 (.134)	3.51 (.138)

Electrical:

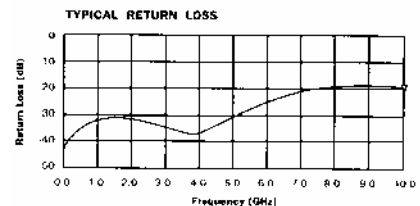
Impedance	50 ohm
Frequency Range	0 to 10.0 GHz
VSWR	$1.15 + 0.04 \times f$ GHz max (straight) $1.25 + 0.04 \times f$ GHz max (right angle) <ul style="list-style-type: none"> RG – 174, 188, 316 → $1.15 + 0.04 \times f$ GHz max (straight) $1.25 + 0.04 \times f$ GHz max (right angle) RG – 178, 196 → $1.25 + 0.04 \times f$ GHz max (straight) $1.4 + 0.06 \times f$ GHz max (right angle)
Voltage Rating	<ul style="list-style-type: none"> RG – 174, 188, 316 → 335 volts rms max RG – 178, 196 → 250 volts rms max
Dielectric Withstanding Voltage	<ul style="list-style-type: none"> RG – 174, 188, 316 → 750 volts rms max RG – 178, 196 → 500 volts rms max
Contact Resistance	center contact = 6.0 Milliohms max outer contact = 1.0 Milliohms max
RF Leakage	-55 dB min @ 3 GHz
Insertion Loss	.4 dB max (straight) .6 dB max (right angle)
Insulation Resistance	1,000 Megohms min

Mechanical & Environmental:

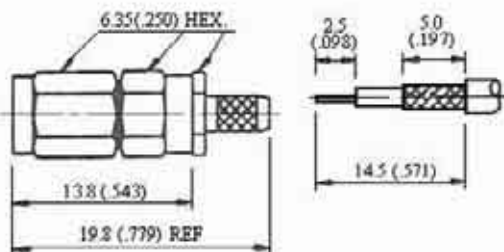
Mating	# 10 – 32 threaded coupling
Cable Retention	RG – 174, 188, 316 → 20 lbs min RG – 178, 196 → 6 lbs min
Durability	500 matings
Coupling Nut Retention	40 lbs min
Temperature Range	-65 °C to 165 °C
Vibration	MIL-STD-1344 Method 2005 Test Cond. IV.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.
Temperature Cycling	MIL-STD-1344 Method 1003 Test Cond. A.

Material:

	Material	Plating
Connector Body	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Beryllium Copper	Gold
Insulation	Teflon	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body



Straight Plug Crimp (SMC)

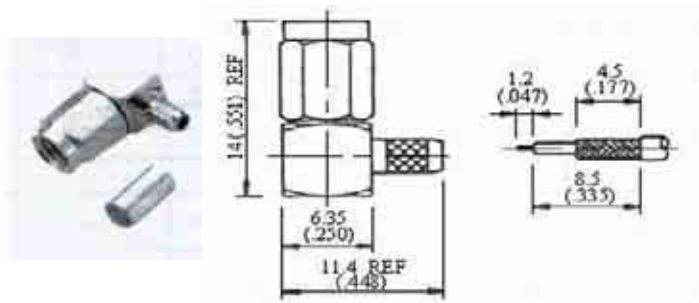


PART NO.	APPLICABLE CABLE RG/U
SMC-1101-TGG	174, 188A, 316
SMC-1102-TGG	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug Crimp (SMC)

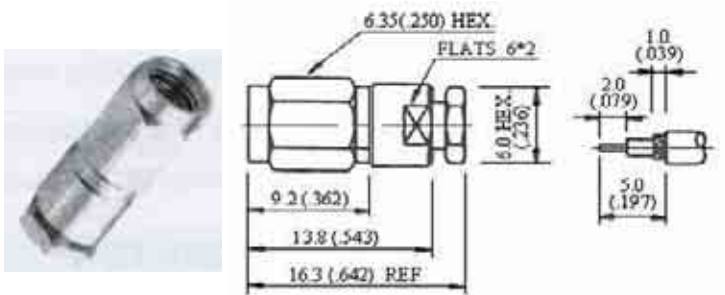


PART NO.	APPLICABLE CABLE RG/U
SMC-1103-TGG	174, 188A, 316
SMC-1104-TGG	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Plug Clamp (SMC)

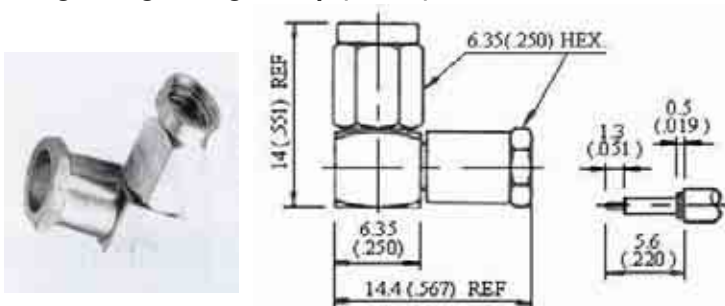


PART NO.	APPLICABLE CABLE RG/U
SMC-2101-TGG	174, 188A, 316
SMC-2102-TGG	178, 196

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug Clamp (SMC)

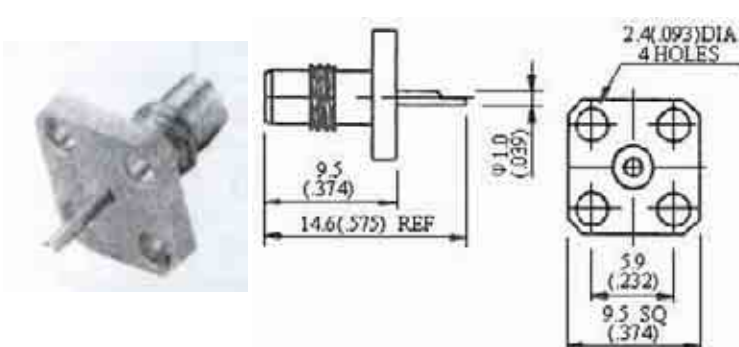


PART NO.	APPLICABLE CABLE RG/U
SMC-2103-TGG	174, 188A, 316
SMC-2104-TGG	178, 196

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & body
Insulation: Teflon

Square Flange Jack Receptacle (SMC)

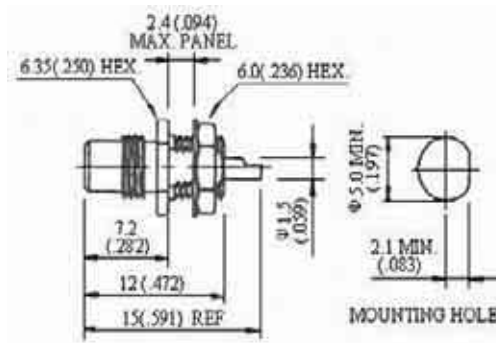


PART NO.
SMC-3201-TGG

Description:
Bulkhead, Panel Mount Receptacles
(Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (Front Mount) (SMC)

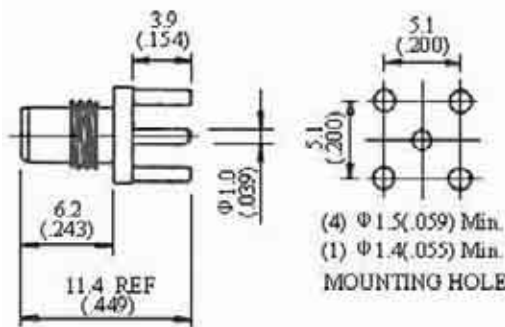


PART NO. _____
SMC-4201-TGG

Description:
Bulkhead, Panel Mount Receptacles
(Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

Straight PCB Mount Jack Receptacle (SMC)

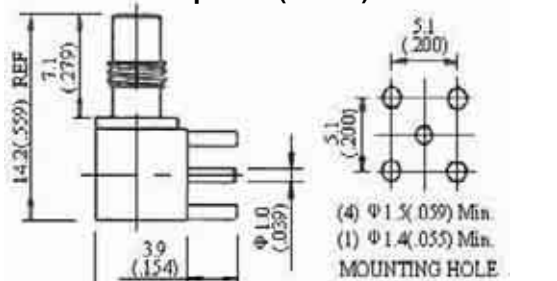


PART NO. _____
SMC-5201-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle PCB Mount Jack Receptacle (SMC)

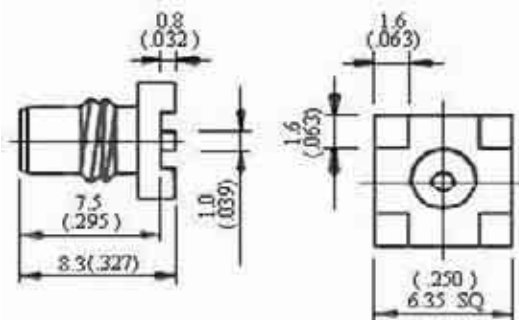


PART NO. _____
SMC-5202-TGG

Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Surface Mount Jack Receptacle (SMC)

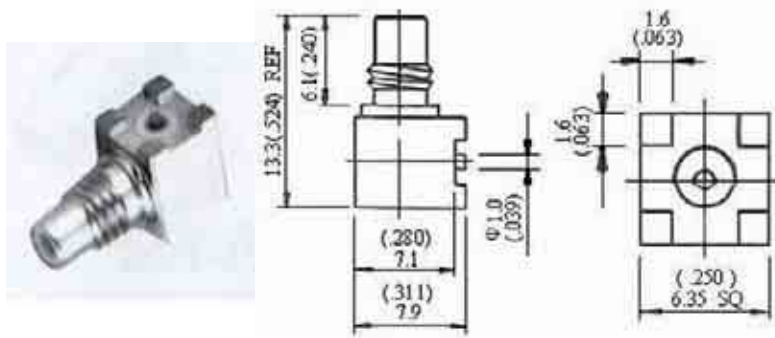


PART NO. _____
SMC-5203-TGG

Description:
Surface Mount Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Surface Mount Jack Receptacle (SMC)

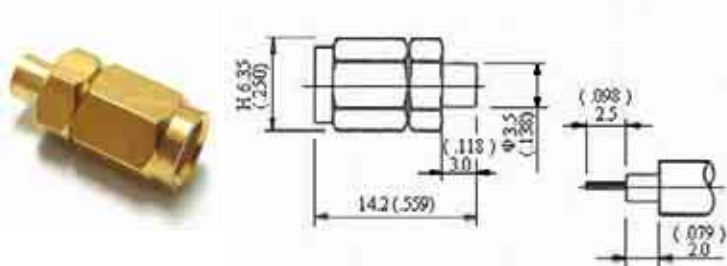


PART NO.
SMC-5204-TGG

Description:
Surface Mount Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

Straight Plug (SMC)

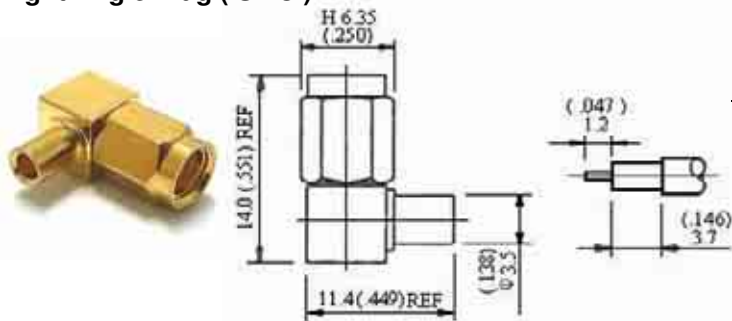


PART NO.	APPLICABLE CABLE RG/U
SMC-7101-TGG	RG/U (.085")

Description:
For Semi-Rigid Cable
(.085" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

Right Angle Plug (SMC)



PART NO.	APPLICABLE CABLE RG/U
SMC-7102-TGG	RG/U (.085")

Description:
For Semi-Rigid Cable
(.085" Direct Solder Attachment)

Finish: Gold plated center contact & body
Insulation: Teflon

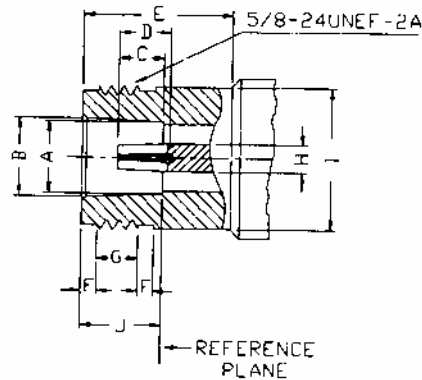
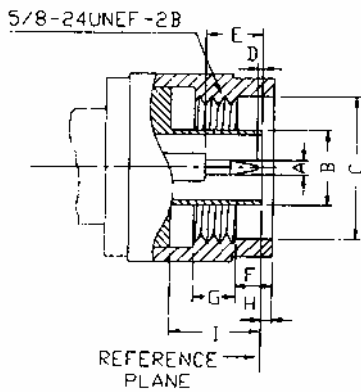
50 ohm 0 – 11 GHz

N series coaxial connectors are medium-sized, threaded coupling connectors designed for use from DC to 12.4 GHz. Their consistently low broadband –VSWR have made them popular over the years in many applications. The N series connector is impedance matched to 50 ohm cables.

Cable terminations are available in crimp, clamp and solder configurations. The threaded coupling ensures proper mating in applications where shock and extreme vibration are design considerations.

N connectors are used in aerospace, broadcast, audio and video applications as well as many microwave components such as filters, couplers, dividers, amplifiers and attenuators to name a few.

INTERFACE MATING DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	1.60 (.063)	1.68 (.066)
B	7.95 (.313)	8.03 (.3158)
C	16.00 (.630)	-
D	0.08 (.003)	-
E	5.33 (.210)	5.84 (.230)
F	4.01 (.158)	4.27 (.168)
G	4.50 (.177)	-
H	0.41 (.016)	1.52 (.060)
I	10.11 (.398)	10.46 (.412)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	8.03 (.316)	8.13 (.320)
B	8.53 (.336)	8.74 (.344)
C	4.75 (.187)	5.26 (.207)
D	5.33 (.210)	-
E	10.72 (.422)	-
F	1.19 (.047)	1.96 (.077)
G	4.37 (.172)	5.13 (.202)
H	3.00 (.118)	3.15 (.124)
I	-	15.93 (.627)
J	9.04 (.356)	9.19 (.362)

Electrical:

Impedance	50 ohm	75 ohm
Frequency Range	0 to 12.4 GHz	0 to 1.5 GHz
VSWR	1.15 + 0.015 x f GHz max	
Voltage Rating	1,500 volts rms max <ul style="list-style-type: none"> • RG – 58, 141, 142, 223 → 500 volts rms max • RG – 174, 188, 316 → 335 volts rms max 	
Dielectric Withstanding Voltage	2,500 volts rms max <ul style="list-style-type: none"> • RG – 58, 141, 142, 223 → 1,000 volts rms max • RG – 174, 188, 316 → 750 volts rms max 	
Contact Resistance	center contact = 1.0 Milliohms max	

	outer contact = 0.2 Milliohms max
RF Leakage	- (90 – f GHz) dB min
Insertion Loss	.05 dB max x √f GHz
Insulation Resistance	5,000 Megohms min

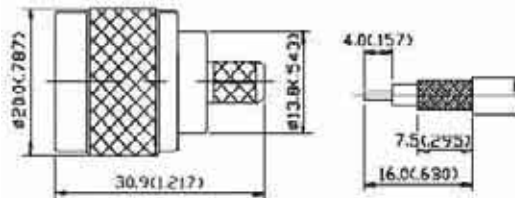
Mechanical & Environmental:

Mating	5/8" – 24 threaded coupling
Cable Retention	RG – 58, 141, 142, 223 → 40 lbs min RG – 59, 62A, 210 → 40 lbs min RG – 174, 188, 316 → 20 lbs min RG – 8A, 9B, 213, 214 → 80 lbs min
Durability	500 matings
Coupling Nut Retention	100 lbs min
Temperature Range	-65 °C to 165 °C
Vibration	MIL-STD-202 Method 204 Test Cond. B.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.
Temperature Cycling	MIL-STD-202 Method 107 Test Cond. B.

Material:

	Material	Plating
Connector Body	Brass	Nickel or Silver
Center Contact	Male: Brass Female: Brass Phosphor Bronze or Beryllium Copper	Gold Gold
Insulation	Teflon	None
Gasket	Silicone Rubber, Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Straight Plug Crimp (N)



Description:
Flexible Cable-Clamp Attachment

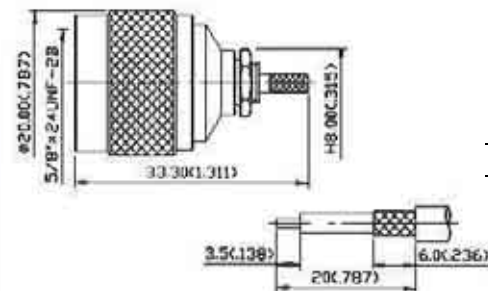
Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

Captive contact

PART NO.	APPLICABLE CABLE RG/U	NOTES
N-1101-TGN	8A, 213	UG No. 1681/I
N-1102-TGN	9B, 214	UG No. 1682/U
N-1103-TGN	58, 58A, 141A	
N-1104-TGN	59, 62A, 210	

Straight Plug Crimp (N)



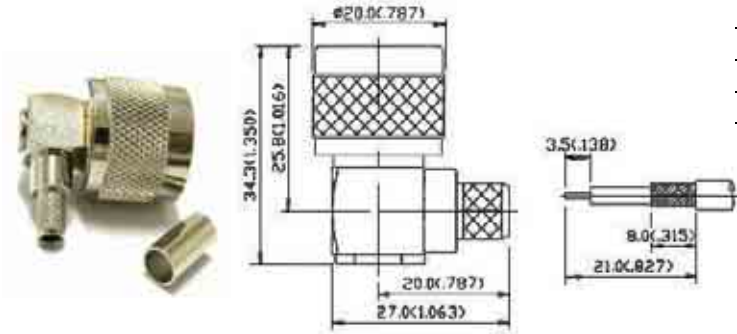
PART NO.	APPLICABLE CABLE RG/U
N-1105-TGN	223U, 58U, 141U
N-1106-TGN	174U, 316U

Description:
Flexible Cable-Crimp Attachment
Captive contact

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

N

Right Angle Plug Crimp (N)



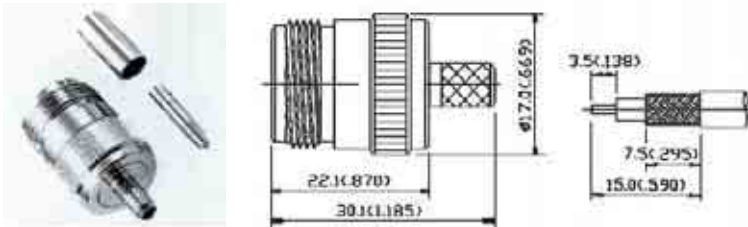
PART NO.	APPLICABLE CABLE RG/U
N-1113-TGN	8A, 213
N-1114-TGN	9B, 214
N-1115-TGN	58, 58A, 141A
N-1116-TGN	59, 62A, 210

Description:

Flexible Cable-Crimp Attachment
Solder center contact directly

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Jack Crimp (N)



Description:

Flexible Cable-Crimp Attachment

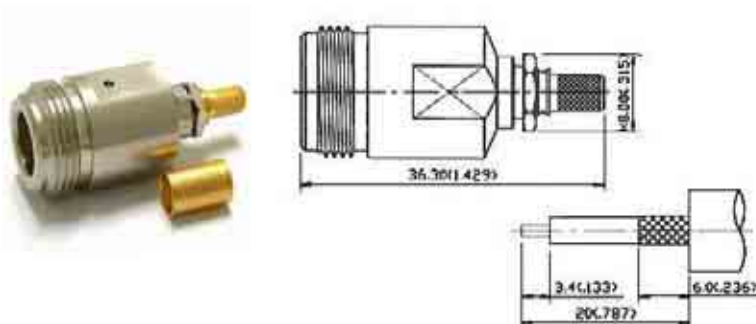
Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

Captive contact

PART NO.	APPLICABLE CABLE RG/U	NOTES
N-1207-TGN	8A, 213	UG No. 1688/U
N-1208-TGN	9B, 214	UG No. 1689/U
N-1209-TGN	58, 58A, 141A	
N-1210-TGN	59, 62A, 210	

Straight Jack Crimp (N)



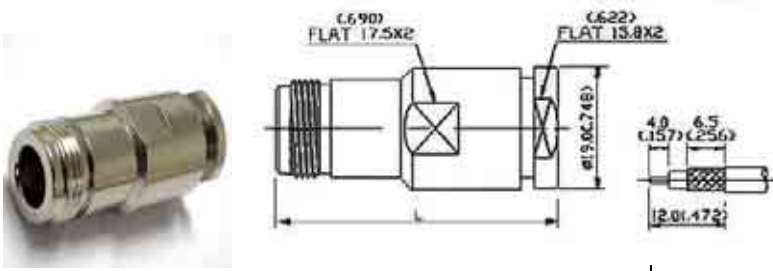
PART NO.	APPLICABLE CABLE RG/U
N-1113-TGN	8A, 213
N-1114-TGN	9B, 214

Description:

Flexible Cable-Crimp Attachment
Solder center contact directly

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Jack Clamp (N)



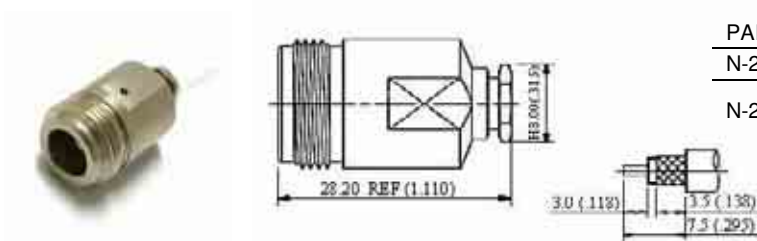
Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

PART NO.	APPLICABLE CABLE RG/U	NOTES
N-2109-TGN	8A, 213	L: 46,5 mm
N-2110-TGN	9B, 214	L: 46,5 mm
N-2111-TGN	8A, 213	captive contact L: 41,0 mm
N-2112-TGN	9B, 214	L: 35,7 mm
N-2113-TGN	58, 58A, 141A	

Straight Jack Clamp (N)

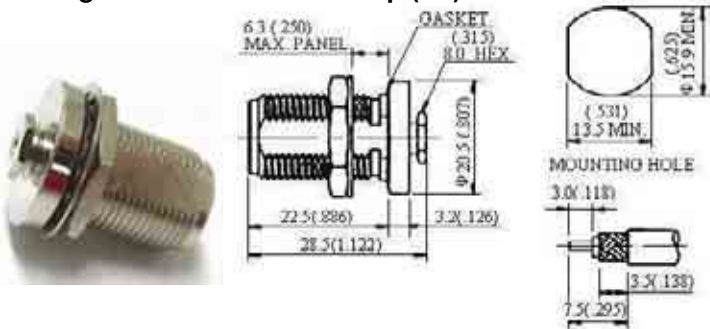


PART NO.	APPLICABLE CABLE RG/U
N-2214-TGN	174U, 316U, 178, 188, 179U
N-2215-TGN	58A, 223U, 55U, 141, 142U, 303U

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Jack Bulkhead Clamp (N)

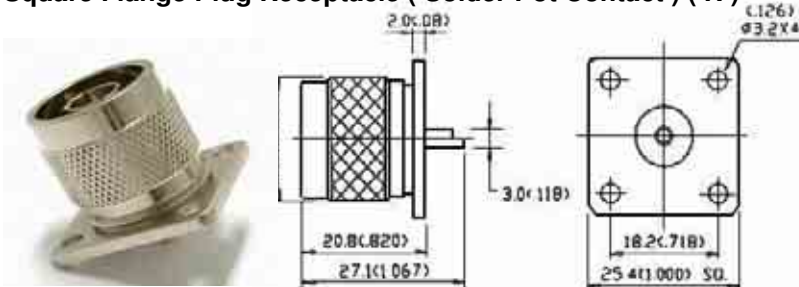


PART NO.	APPLICABLE CABLE RG/U
N-2117-TGN	58U, 55U, 141, 142, 223, 303
N-2118-TGN	174, 118A, 316

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Square Flange Plug Receptacle (Solder Pot Contact) (N)



Square Flange Plug Receptacle (Solder Pot Contact)
PART NO.

N-3103-TGN

Square Flange Plug Receptacle (Tab Contact)
PART NO.

N-3105-TGN

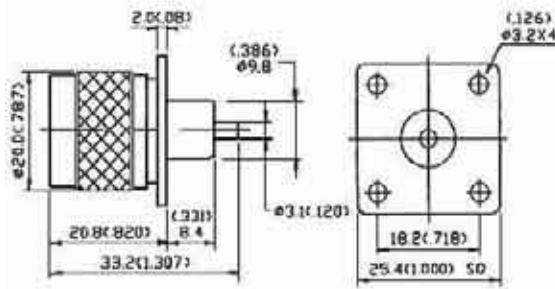
Square Flange Plug Receptacle (Slotted Contact)
PART NO.

N-3106-TGN

Description:
Panel Mount Receptacles

Insulation: Teflon
Finish: Gold plated center contact & nickel plated body

Square Flange Plug Receptacle (Exposed Teflon) (N)

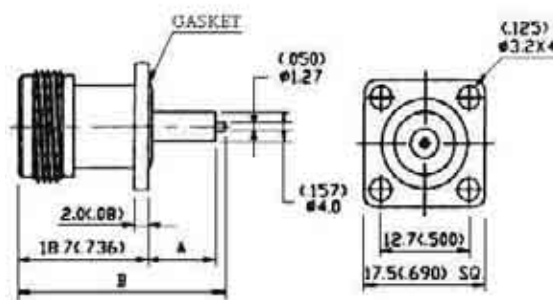


PART NO.
N-3104-TGN

Description:
Panel Mount Receptacles

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Square Flange Jack Receptacle (Exposed Teflon) (N)

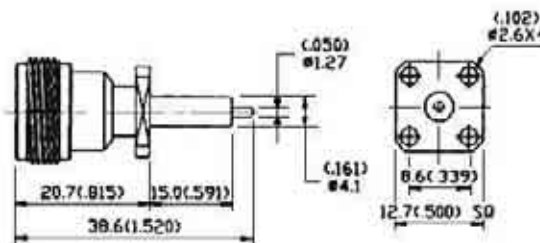


PART NO.	NOTES
N-3201-TGN	(A: 6.5; B: 28)

Description:
Panel Mount Receptacles
(A=6.5, B=28)

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Square Flange Jack Receptacle (Exposed Teflon)(N)

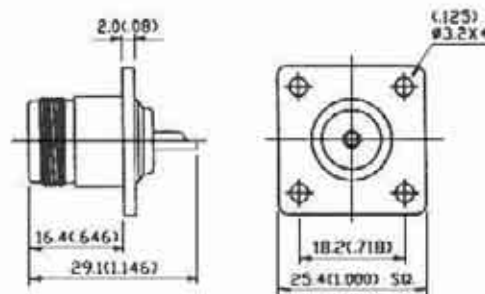


PART NO.
N-3202-TGN

Description:
Panel Mount Receptacles

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Square Flange Jack Receptacle (Solder Pot Contact) (N)



**Square Flange Jack Receptacle
(Solder Pot Contact)**
PART NO.

N-3207-TGN

Notes: UG No. 58/U

**Square Flange Jack Plug
Receptacle (Slotted Contact)**
PART NO.

N-3208-TGN

**Square Flange Jack Receptacle
(Tab Contact)**
PART NO.

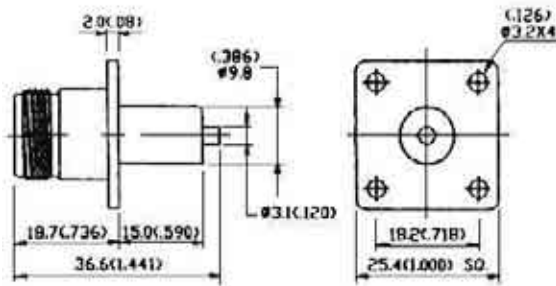
N-3209-TGN

Description:
center contact & nickel plated body
Panel Mount Receptacles
UG No. 58/U

Finish: Gold plated
Insulation: Teflon

N

Square Flange Jack Receptacle (Exposed Teflon) (N)

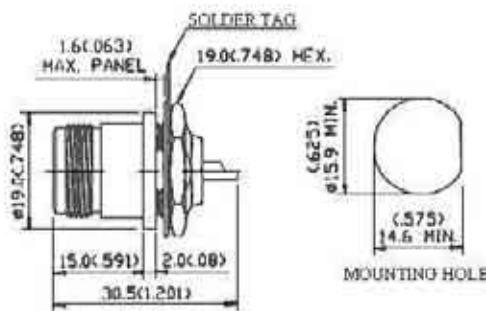


PART NO.
N-3210-TGN

Description:
Panel Mount Receptacles

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (Solder Pot Contact)(N)

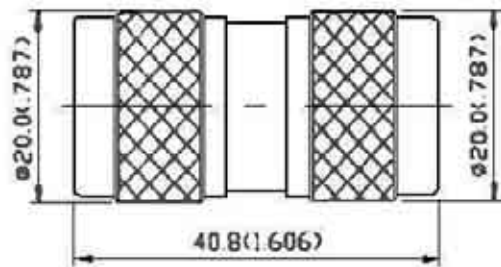


PART NO. | NOTES
N-4201-TGN | UG No. 680A/U

Description:
Bulkhead Mount Receptacles
UG No. 680A/U

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Plug - Plug (N)

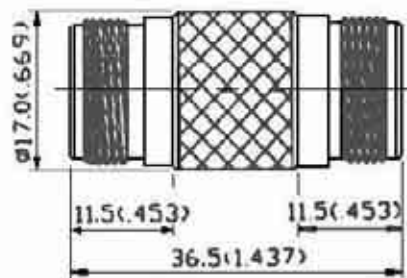


PART NO. | NOTES
N-601-TGN | UG No. 57B/U

Description:
In-Series Adapters
UG No. 57B/U

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Jack - Jack (N)

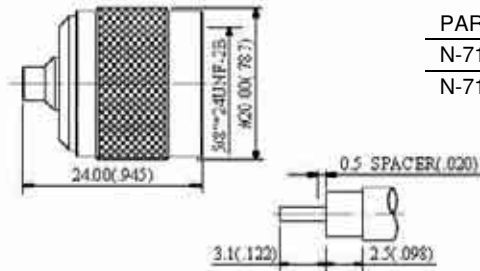


PART NO. | NOTES
N-602-TGN | UG No. 29B/U

Description:
In-Series Adapters
UG No. 29B/U

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Plug (N)

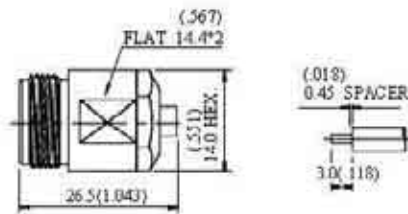


PART NO.	APPLICABLE CABLE RG/U
N-7101-TGN	RG 402/u (.141")
N-7102-TGN	RG 405/u (.085")

Description:
For Semi-Rigid Cable
(.085" .141" and .250" Direct Solder Attachment)

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Jack (N)

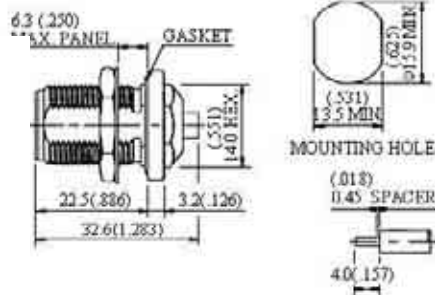


PART NO.	APPLICABLE CABLE RG/U
N-7203-TGN	RG 402/u (.141")
N-7204-TGN	RG 405/u (.085")
N-7205-TGN	RG 401/u (.250")

Description:
For Semi-Rigid Cable
(.085" .141" and .250" Direct Solder Attachment)

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Bulkhead Jack (BNC)

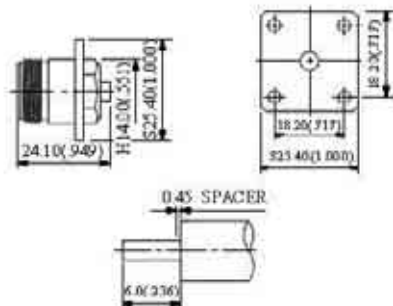


PART NO.	APPLICABLE CABLE RG/U
N-7206-TGN	RG 402/u (.141")
N-7207-TGN	RG 405/u (.085")
N-7208-TGN	RG 401/u (.250")

Description:
For Semi-Rigid Cable
(.085" .141" and .250" Direct Solder Attachment)

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Square Flange Jack Receptacle (N)



PART NO.	APPLICABLE CABLE RG/U
N-7209-TGN	RG 402/u (.141")
N-7210-TGN	RG 405/u (.085")
N-7211-TGN	RG 401/u (.250")

Description:
For Semi-Rigid Cable

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

TNC

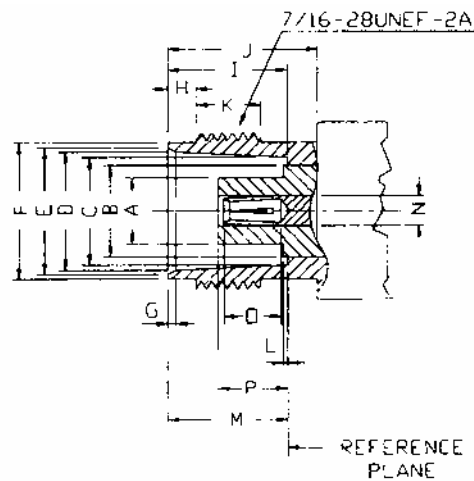
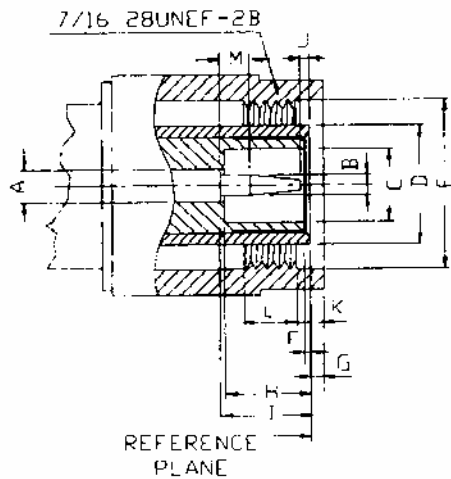
50 ohm 0 – 11 GHz

TNC series connectors are similar to BNC connectors except for their mating threaded coupling. Which is designed to provide low reflection from DC to 11 GHz under extreme environmental conditions, especially shock and vibration.

Cable terminations are available in crimp, clamp, twist-on and solder configurations. The 7/16" – 28 thread coupling provides positive mating.

Although their rugged design was initially developed for high vibration environments, TNC connectors are widely accepted and used for data transmission, medical equipment, cellular mobile telephones, test equipment, microwave components and aerospace application.

INTERFACE DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	2.06 (.081)	2.21 (.087)
B	1.30 (.052)	1.37 (.054)
C	4.83 (.190)	-
D	-	8.08 (.318)
E	11.18 (.440)	-
F	0.15 (.006)	-
G	-	1.98 (.078)
H	5.28 (.208)	5.79 (.228)
I	5.33 (.210)	5.84 (.230)
J	0.08 (.003)	1.02 (.040)
K	1.60 (.063)	-
L	3.96 (.156)	-
M	1.98 (.078)	-

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	4.72 (.186)
B	-	6.50 (.256)
C	8.10 (.319)	8.15 (.321)
D	8.31 (.327)	8.46 (.333)
E	8.79 (.346)	9.04 (.356)
F	9.60 (.378)	9.68 (.381)
G	0.38 (.015)	0.77 (.030)
H	1.73 (.068)	2.24 (.088)
I	8.31 (.327)	8.51 (.335)
J	10.52 (.414)	-
K	4.75 (.187)	-
L	-	0.15 (.006)
M	4.78 (.188)	5.28 (.208)
N	2.06 (.081)	2.21 (.087)
O	4.95 (.195)	-
P	4.72 (.186)	5.23 (.206)

Electrical:

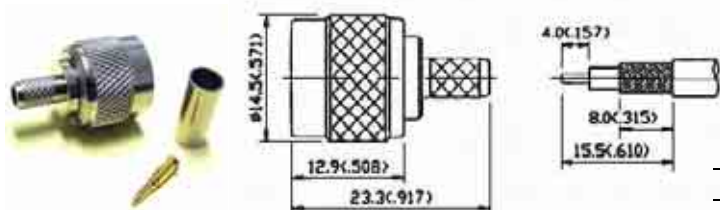
Impedance	50 ohm	75 ohm
Frequency Range	0 to 11.0 GHz	0 to 1.0 GHz
VSWR	1.3 max	
Voltage Rating	500 volts rms max <ul style="list-style-type: none"> • RG- 58, 141, 142, 223 → 500 volts rms max • RG – 174, 188, 316 → 335 volts rms max 	
Dielectric Withstanding Voltage	1,500 volts rms max <ul style="list-style-type: none"> • RG- 58, 141, 142, 223 → 1,000 volts rms max • RG – 174, 188, 316 → 750 volts rms max 	
Contact Resistance	center contact = 1.5 Milliohms max outer contact = 0.2 Milliohms max	
RF Leakage	-55 dB min @ 3 GHz	
Insertion Loss	.2 dB max @ 3 GHz	
Insulation Resistance	5,000 Megohms min	

Mechanical & Environmental:

Mating	7/16" – 28 threaded coupling
Cable Retention	RG – 58, 141, 142, 223 → 40 lbs min RG – 59, 62A, 210 → 40 lbs min RG – 174, 188, 316 → 20 lbs min
Durability	500 matings
Coupling Nut Retention	100 lbs min
Temperature Range	-65 °C to 165 °C
Vibration	MIL-STD-202 Method 204 Test Cond. B.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.

Material:

	Material	Plating
Connector Body	Brass	Nickel or Silver
Center Contact	Male: Brass Female: Brass or Phosphor Bronze. Beryllium Copper	Gold Gold
Insulation	Teflon or Delrin	None
Gasket	Silicone Rubber, Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

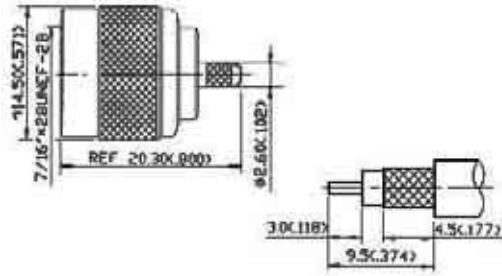
Straight Plug Crimp (TNC)


PART NO.	APPLICABLE CABLE RG/U
TNC-1101-DGN	58, 58A, 141A
TNC-1102-DGN	59, 62A, 210

Description:
Flexible Cable-Crimp Attachment
Captive contact

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin TPX

Straight Plug Crimp (TNC)



Description:

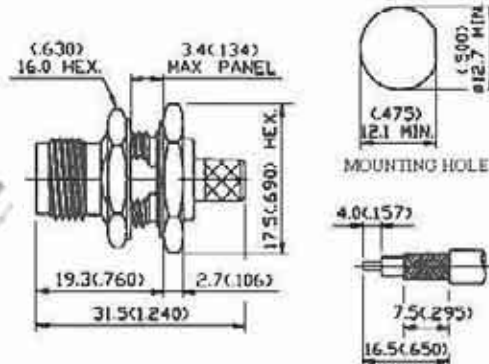
Flexible Cable-Crimp Attachment
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin TPX

Captive contact

PART NO.	APPLICABLE CABLE RG/U	NOTES
TNC-1103-TGN	174, 188A, 316	
TNC-1104-TGN	179B, 187A	75 ohms

Straight Bulkhead Jack Crimp (TNC)



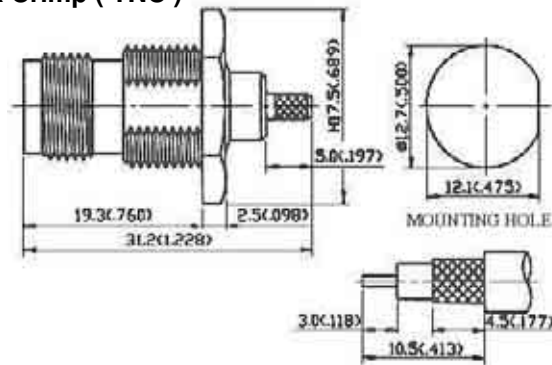
PART NO.	APPLICABLE CABLE RG/U
TNC-1205-DGN	58, 58A, 141A
TNC-1206-DGN	59, 62A, 210

Description:

Flexible Cable-Crimp Attachment
Captive contact

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

Straight Bulkhead Jack Crimp (TNC)



Description:

Flexible Cable-Crimp Attachment

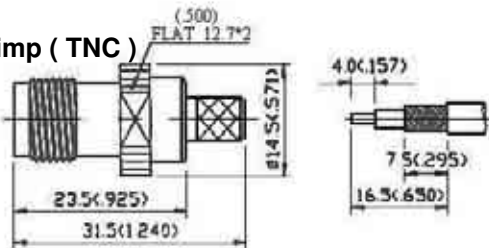
Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

Captive contact

PART NO.	APPLICABLE CABLE RG/U	NOTES
TNC-1207-TGN	174, 188A, 316	
TNC-1208-TGN	179B, 187A	75 ohms

Straight Jack Crimp (TNC)



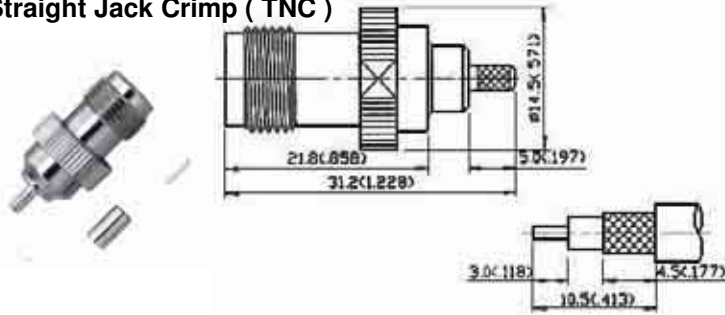
PART NO.	APPLICABLE CABLE RG/U
TNC-1205-DGN	58, 58A, 141A
TNC-1206-DGN	59, 62A, 210

Description:

Flexible Cable-Crimp Attachment
Captive contact

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

Straight Jack Crimp (TNC)



Flexible Cable-Crimp **Description:**
Attachment

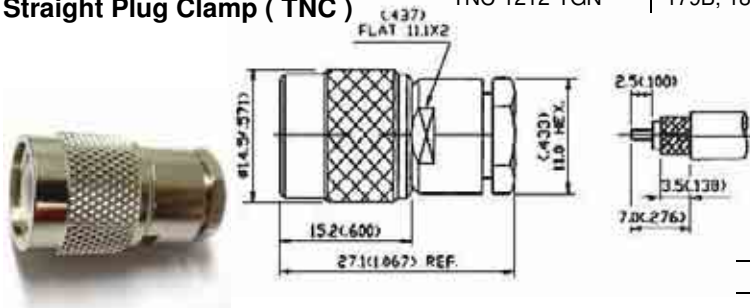
Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

Captive contact

PART NO.	APPLICABLE CABLE RG/U	NOTES
TNC-1211-TGN	174, 188A, 316	
TNC-1212-TGN	179B, 187A	75 ohms

Straight Plug Clamp (TNC)

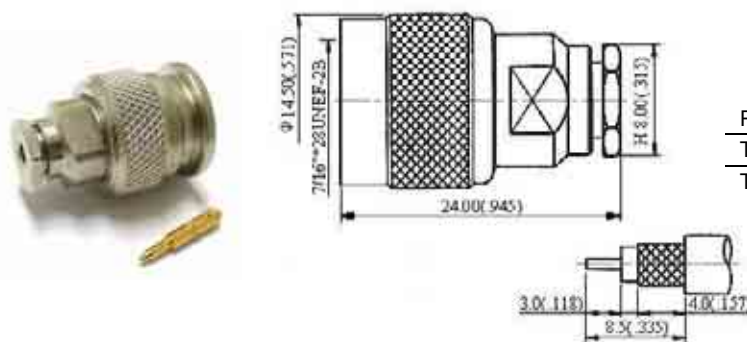


PART NO.	APPLICABLE CABLE RG/U
TNC-2101-DGN	58, 58A, 141A
TNC-2102-DGN	59, 62A, 210

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

Straight Plug Clamp (TNC)

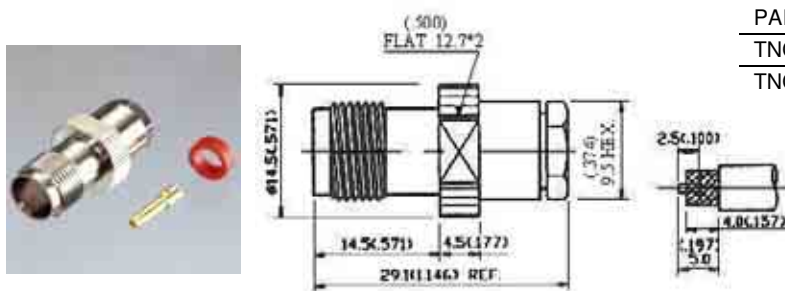


PART NO.	APPLICABLE CABLE RG/U
TNC-2103-TGN	58U, 55U, 223U
TNC-2104-TGN	174, 188, 316U

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

Straight Jack Clamp (TNC)

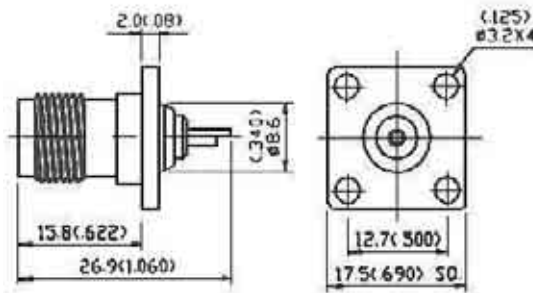


PART NO.	APPLICABLE CABLE RG/U
TNC-2205-DGN	58, 58A, 141A
TNC-2206-DGN	59, 62A, 210

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

Square Flange Jack Receptacle (TNC)

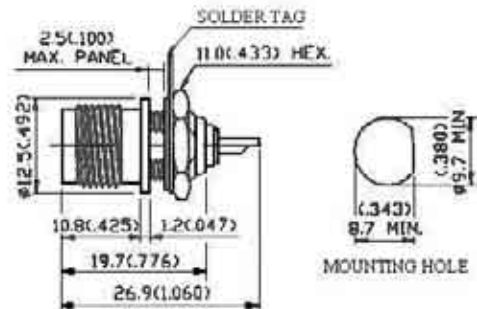


PART NO. _____
TNC-3201-DGN

Description:
Bulkhead, Panel, PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

Straight Bulkhead Jack Receptacle (TNC)

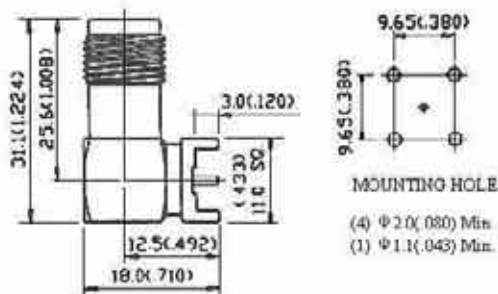


PART NO. _____
TNC-4201-DGN

Description:
Bulkhead, Panel, PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

Right Angle PCB Mount Jack Receptacle (TNC)

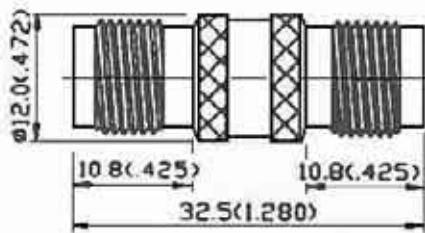


PART NO. _____
TNC-5201-TGN

Description:
Bulkhead, Panel, PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Jack - Jack (TNC)

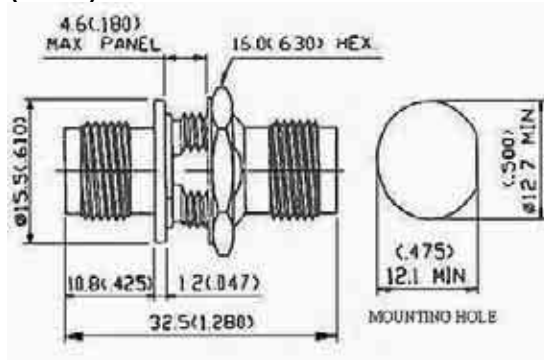


PART NO. _____
TNC-601-DGN

Description:
In-Series Adapters

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

Bulkhead Jack - Jack (TNC)

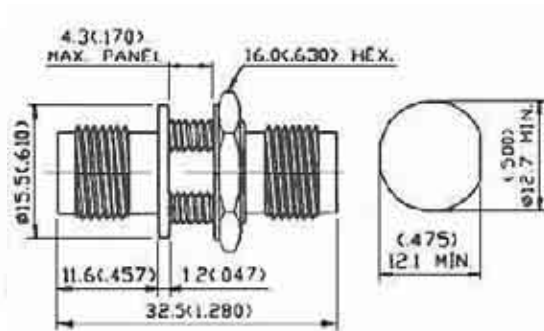


PART NO. _____
TNC-602-DGN

Description:
In-Series Adapters

Finish: Gold plated center contact & nickel plated body
Insulation: Derlin

Isolated Bulkhead Jack - Jack (TNC)

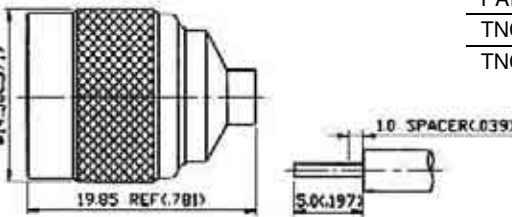


PART NO. _____
TNC-603-DGN

Description:
In-Series Adapters

Finish: Gold plated center contact & nickel plated body
Insulation: Derlin

Straight Plug Crimp (TNC)

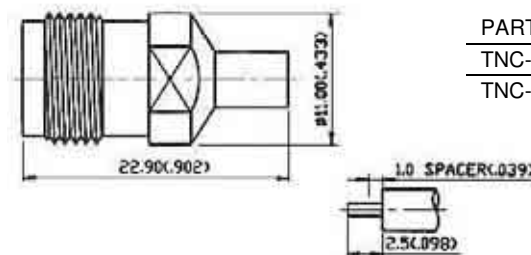


PART NO.	APPLICABLE CABLE RG/U
TNC-7101-TGG	.141"
TNC-7102-TGG	.085"

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Derlin

Straight Plug Crimp (TNC)



PART NO.	APPLICABLE CABLE RG/U
TNC-7203-TGG	.141"
TNC-7204-TGG	.085"

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Derlin

BNC

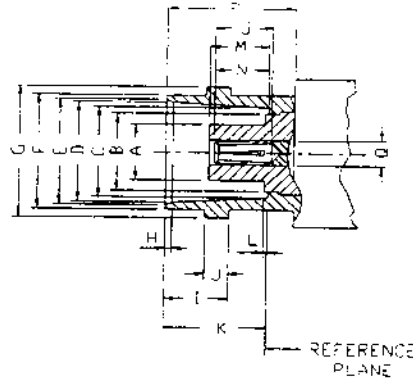
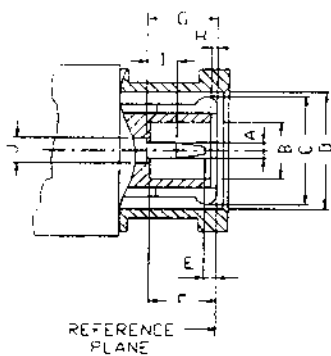
50 ohm 0 – 4 GHz

BNC coaxial connectors are one of the world's most popular RF connectors. They are miniature, lightweight and can operate satisfactorily up to 11 GHz. The BNC is typically used in applications from DC to 4 GHz and yield low reflection this frequency range.

Cable terminations are available in crimp, clamp, solder and jacket quick twist configurations. The twostud bayonet lock coupling provides ease of connecting and disconnecting and is ideally suited for applications such as test equipment where this feature is notably significant.

BNC connectors are most prevalent in computer networks, audio, video, data processing and telecommunication equipment because of their size and relatively low installed cost.

INTERFACE DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	1.32 (.052)	1.37 (.054)
B	4.83 (.190)	-
C	SLOTTED AND FLATED TO MEET	
D	9.78 (.385)	9.91 (.390)
E	0.08 (.003)	
F	5.28 (.208)	5.79 (.228)
G	5.33 (.210)	5.84 (.230)
H	0.15 (.006)	0.46 (.018)
I	2.00 (.078)	-
J	2.06 (.081)	2.21 (.087)

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	4.72 (.186)
B	-	6.50 (.256)
C	8.10 (.319)	8.15 (.321)
D	8.31 (.327)	8.46 (.333)
E	8.80 (.346)	9.04 (.356)
F	9.60 (.378)	9.70 (.382)
G	10.97 (.432)	11.07 (.436)
H	0.38 (.015)	0.76 (.030)
I	5.18 (.204)	5.28 (.208)
J	1.91 (.075)	2.06 (.081)
K	8.31 (.327)	8.51 (.335)
L	-	0.15 (.006)
M	4.80 (.189)	5.28 (.208)
N	4.72 (.186)	5.23 (.206)
O	4.95 (.195)	-
P	10.52 (.414)	-
Q	2.06 (.081)	2.21 (.087)

Electrical:

Impedance	50 ohm	75 ohm
Frequency Range	0 to 4.0 GHz	0 to 1 GHz
VSWR	1.3 max	
Voltage Rating	500 volts rms max ▪ RG – 58, 141, 142, 223 – 500 volts rms max	

	<ul style="list-style-type: none"> RG – 174, 188, 316 – 335 volts rms max
Dielectric withstanding Voltage	1,500 volts rms max <ul style="list-style-type: none"> RG- 58, 141, 142, 223 – 1,000 volts rms max RG – 174, 188, 316 – 750 volts rms max
Contact Resistance	center contact = 1.5 Milliohms max outer contact = 0.5 Milliohms max
RF Leakage	-55 dB min @ 3 GHz
Insertion Loss	.2 dB max @ 3 GHz
Insulation Resistance	5,000 Megohms min

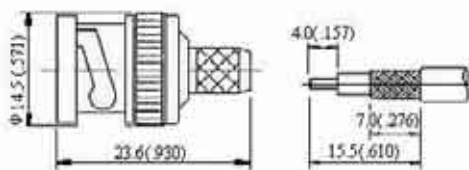
Mechanical & Environmental:

Mating	Two stud bayonet coupling
Durability	5800 matings
Coupling Nut Retention	100 lbs. min
Cable Retention	RG – 58, 141, 142, 223 – 40 lbs min RG – 59, 62A, 210 – 40 lbs min RG – 174, 188, 316 – 20 lbs min RG – 179B, 187A – 20 lbs min
Temperature Range	-65 °C to 85 °C
Vibration	MIL-STD-202 Method 204 Test Cond. B.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.

Material:

	Material	Plating
Connector Body	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Brass, Phosphor Bronze or Beryllium Copper	Gold Gold
Insulation	Teflon or Delrin	None
Basket	Silicone Rubber Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Straight Plug Crimp



Description:

Flexible Cable-Crimp Attachment

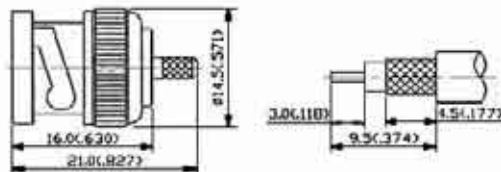
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin (or TPX)

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1101-DGN	58, 58A, 141A	1.2
BNC-1102-DGN	59, 62A, 210	1.2
BNC-1104-DGN	174, 188A, 316	1.2

Straight Plug Crimp (BNC)



Description:

Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

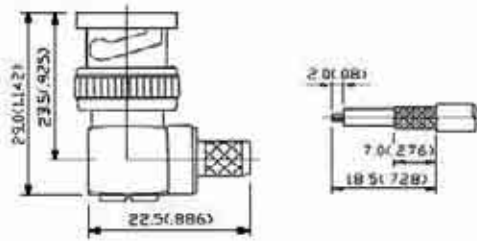
Insulation: Teflon TPX

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1103-TGN	174, 188A, 316	2

BNC

Right Angle Plug Crimp (Solder Contact) (BNC)



Description:

Flexible Cable-Crimp Attachment

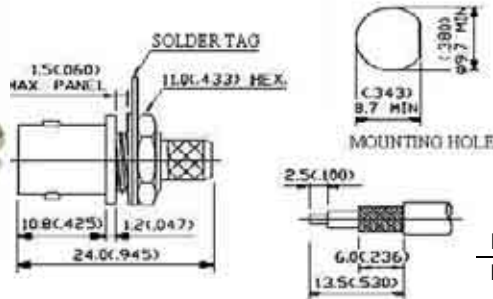
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1112-DGN	58, 58A, 141A	1.2
BNC-1113-DGN	59, 62A, 210	1.2
BNC-1114-TGN	174, 188A, 316	2

Straight Bulkhead Jack Crimp (BNC)



PART NO.	APPLICABLE CABLE RG/U
BNC-1205-TGN	174, 188A, 316

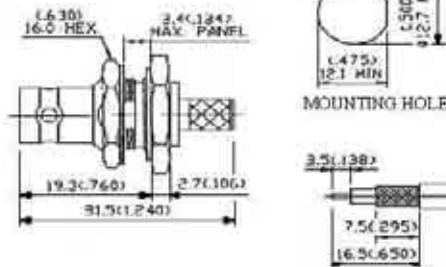
Description:

Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body

Insulation: Teflon

Straight Bulkhead Jack Crimp (BNC)



PART NO.	APPLICABLE CABLE RG/U
BNC-1206-DGN	58, 58A, 141A (NOTES 1)
BNC-1207-DGN	59, 62A, 210 (NOTES 1)
BNC-1208-TGN	174, 188A, 316

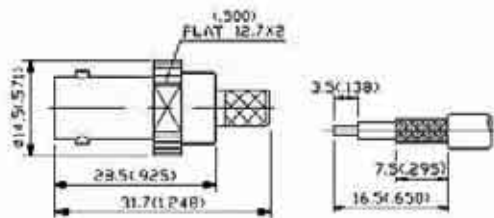
Description:

Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body

Insulation: Teflon

Straight Jack Crimp



Description:

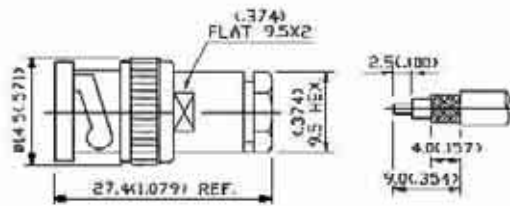
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-1209-DGN	58, 58A, 141A	1
BNC-1210-DGN	59, 62A, 210	1
BNC-1211-TGN	174, 188A, 316	

Straight Plug Clamp (BNC)



Description:
Flexible Cable-Crimp Attachment

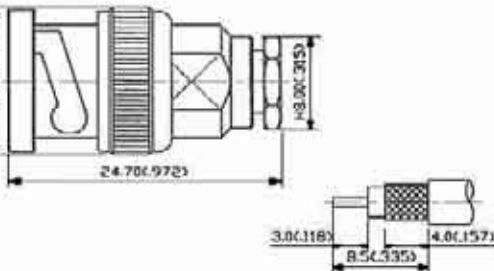
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-2101-DGN	58, 58A, 141A	1.2
BNC-2102-DGN	59, 62A, 210	1.2

Straight Plug Clamp (BNC)



Description:
Flexible Cable-Crimp Attachment

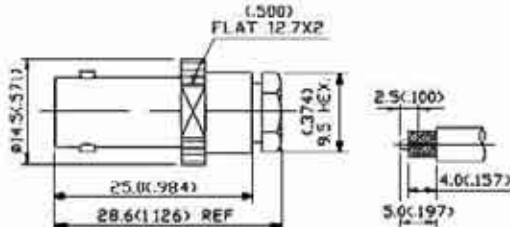
Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

Brass coupling nut

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-2103-TGN	58U, 55U, 141, 142, 223, 303	1.2
BNC-2104-TGN	174U, 188, 179, 316U	1.2

Straight Jack Clamp (BNC)



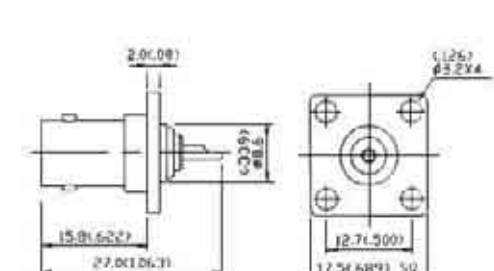
Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
BNC-2205-DGN	58, 58A, 141A	1
BNC-2206-DGN	59, 62A, 210	1

Square Flange Jack Receptacle (BNC)



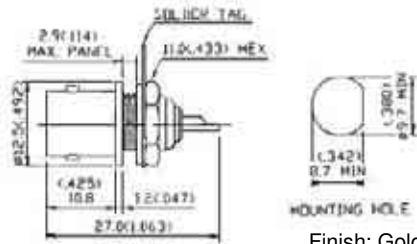
PART NO.
BNC-3201-TGN

Description:
Panel Mount Receptacles (Solder Pot Contact)

Finish: Gold plated center contact & body
Insulation: Teflon

BNC

Straight Bulkhead Jack Receptacle (BNC)

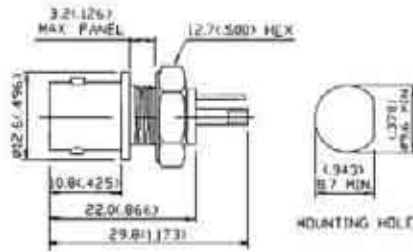


Description:
Bulkhead Mount Receptacles (Solder Pot Contact)
50 Ohm (Brass Body)

Finish: Gold plated center contact & body
Insulation: Delrin

PART NO.
BNC-4101-DGN

Isolated Bulkhead Jack Receptacle (BNC)

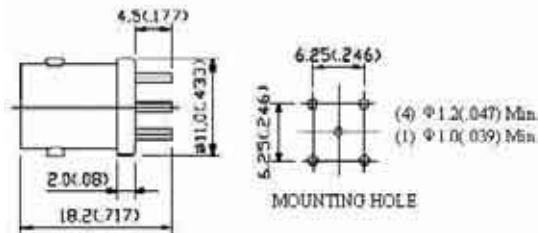


Description:
Bulkhead Mount Receptacles (Solder Pot Contact)
50 Ohm

Finish: Gold plated center contact & body
Insulation: ABS

PART NO.
BNC-4202-ABSGN

Straight PCB Mount Jack Receptacle (BNC)

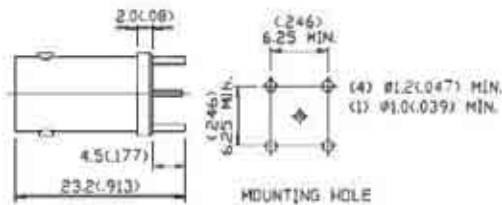


Description:
Printed Circuit Board Receptacles
50 Ohm

Finish: Gold plated center contact & body
Insulation: Teflon

PART NO.
BNC-5201-TGN

Straight PCB Mount Jack Receptacle (BNC)

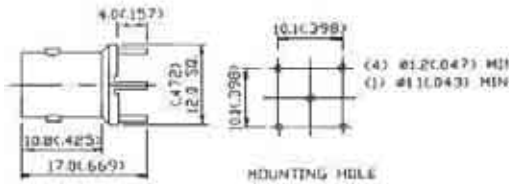


Description:
Printed Circuit Board Receptacles
50 Ohm

Finish: Gold plated center contact & body
Insulation: Delrin

PART NO.
BNC-5202-DGN

Straight PCB Mount Jack Receptacle (BNC)

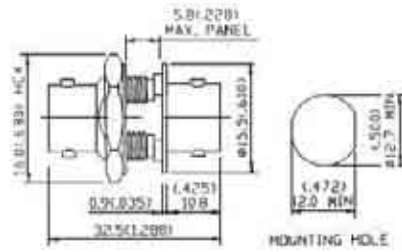


Description:
Printed Circuit Board Receptacles

Finish: Gold plated center contact & body
Insulation: Teflon

PART NO.
BNC-5203-TGN

Bulkhead Jack - Jack (BNC)

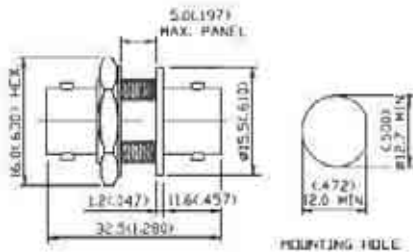


PART NO. _____
BNC-601-DGN

Description:
In series Adapters
50 Ohms

Finish: Gold plated center contact & body
Insulation: Delrin

Isolated Bulkhead Jack - Jack (BNC)

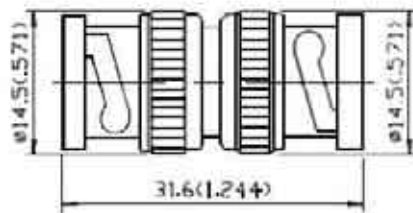


PART NO. _____
BNC-602-DGN

Description:
In series Adapters
50 Ohms
Brass coupling nut

Finish: Gold plated center contact & body
Insulation: Delrin

Plug - Plug (BNC)

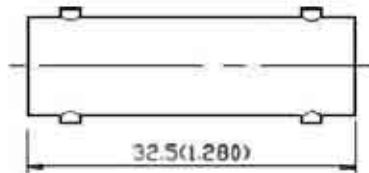


PART NO. _____
BNC-603-DGN

Description:
In series Adapters
50 Ohms
Brass coupling nut

Finish: Gold plated center contact & body
Insulation: Delrin

Jack - Jack (BNC)

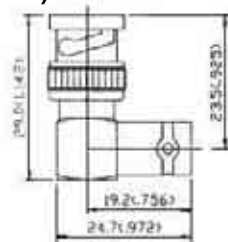


PART NO. _____
BNC-604-DGN

Description:
In series Adapters
Brass body 50 Ohm

Finish: Gold plated center contact & body
Insulation: Delrin

Right Angle Plug - Jack (BNC)



PART NO. _____
BNC-605-DGN

Description:
In series Adapters
Brass coupling nut

Finish: Gold plated center contact & body
Insulation: Delrin

MINI-UHF

50 ohm 0 – 2.5 GHz

Mini-UHF coaxial connectors are designed for use in applications from DC to 2.5 GHz where size, weight and cost elements are crucial.

These miniature 3/8" – 24 thread size connectors provide excellent RF performance and are impedance matched to 50 ohm cable. Crimp, twist-on and solder terminations are available with the Mini-UHF series.

Mini-UHF connectors combine excellent electrical characteristics, small size and light weight at a relatively inexpensive cost for many coaxial connector applications.

Electrical:

Impedance	50 ohm
Frequency Range	0 to 2.5 GHz
VSWR	1.25 max
Voltage Rating	335 volts rms max
Dielectric Withstanding Voltage	1,000 volts rms max
Contact Resistance	center contact = 1.5 Milliohms max outer contact = 1.0 Milliohms max
RF Leakage	-55 dB min @ 2.5 GHz
Insertion Loss	.2 dB max @ 2.5 GHz
Insulation Resistance	5,000 Megohms min

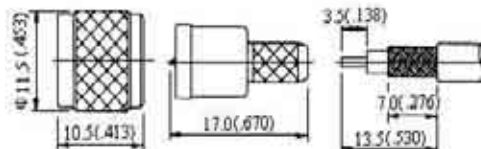
Mechanical & Environmental:

Mating	3/8" – 28 threaded coupling
Cable Retention	RG – 58, 141, 142, 223 → 40 lbs min RG – 174, 188, 316 → 20 lbs min
Durability	500 matings
Temperature Range	-55 °C to 85 °C
Vibration	MIL-STD-202 Method 204 Test Cond. B.
Salt Spray	MIL-STD-202 Method 101 Test Cond. B.

Material:

	Material	Plating
Connector Body	Brass	Nickel
Center Contact	Male: Brass Female: Brass or Phosphor Bronze. Beryllium Copper	Gold Gold
Insulation	Teflon or Delrin	None
Crimp Ferrule	Annealed Copper	Same as Body

Straight Plug Crimp (4 piece Design) (Mini-UHF)



Description:

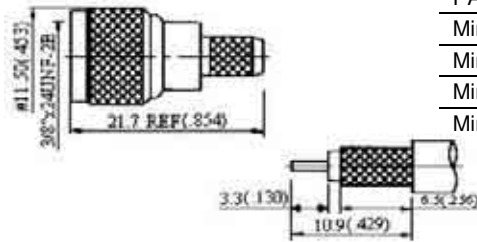
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
Mini-UHF-1103-DGN	58, 58A, 141A	Captive contact

Straight Plug Crimp (Mini-UHF)

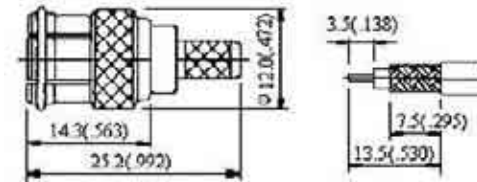


PART NO.	APPLICABLE CABLE RG/U
Mini-UHF-1104-DGN	58U
Mini-UHF-1105-DGN	8X
Mini-UHF-1106-DGN	6U
Mini-UHF-1107-DGN	PROFLEX

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Delrin

Straight Plug Crimp Push-on (No Thread) (Mini-UHF)



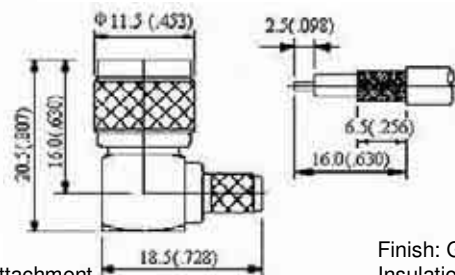
Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Delrin

PART NO.	APPLICABLE CABLE RG/U	NOTES
Mini-UHF-1108-DGN	58, 58A, 141A	Captive contact

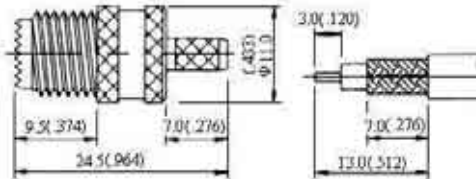
Right Angle Plug Crimp (Mini-UHF)



Description:
Flexible Cable-Crimp Attachment
Solder center contact directly

Finish: Gold plated center contact & body
Insulation: Delrin

Straight Jack Crimp (With Teflon Sleeve) (Mini-UHF)

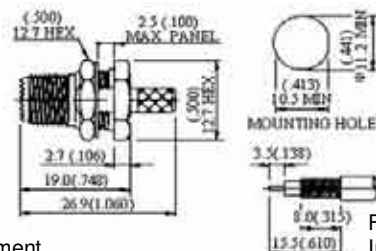


PART NO.	APPLICABLE CABLE RG/U
Mini-UHF-1201-DGN	58, 58A, 141A (NOTES: Captive contact)
Mini-UHF-1202-DGN	174, 188A, 316

Description:
Gold plated center contact & body
Flexible Cable-Crimp Attachment

Finish:
Insulation: Delrin

Straight Bulkhead Jack Crimp (Mini-UHF)



PART NO.	APPLICABLE CABLE RG/U
Mini-UHF-1209-DGN	58, 58A, 141A
Mini-UHF-1210-DGN	59, 62A, 210

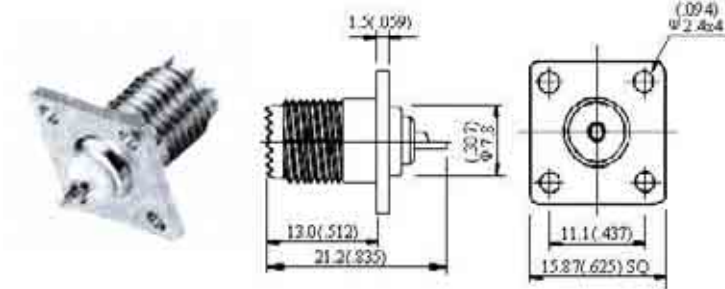
Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & body
Insulation: Delrin

MINI-UHF



Square Flange Jack Receptacle (Mini-UHF)

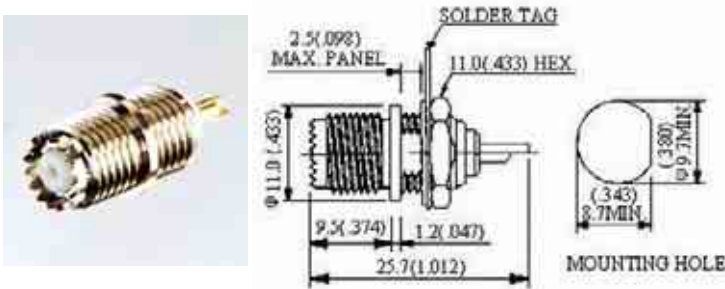


PART NO.
Mini-UHF-3201-DGN

Description:
Bulkhead, Panel & PCB Mount Receptacles

Finish: Gold plated center contact & body
Insulation: Delrin

Straight Bulkhead Jack Receptacle (Front Mount) (Mini-UHF)

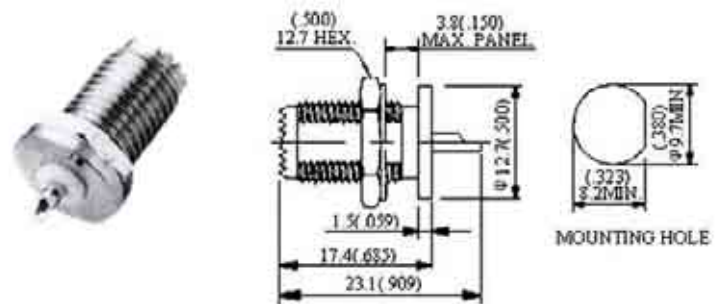


PART NO.
Mini-UHF-4201-DGN

Description:
Bulkhead, Panel & PCB Mount Receptacles

Finish: Gold plated center contact & body
Insulation: Delrin

Straight Bulkhead Jack Receptacle (Rear Mount) (Mini-UHF)

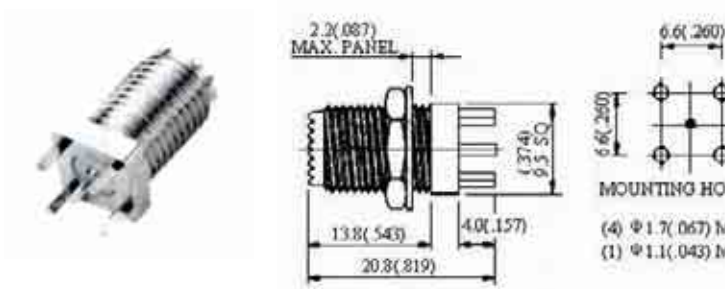


PART NO.
Mini-UHF-4202-DGN

Description:
Bulkhead, Panel & PCB Mount Receptacles
Diecast Zinc body

Finish: Gold plated center contact & body
Insulation: Delrin

Straight PCB Mount Jack Receptacle (Mini-UHF)



PART NO.
Mini-UHF-5201-DGN

Description:
Bulkhead, Panel & PCB Mount Receptacles

Finish: Gold plated center contact & body
Insulation: Delrin

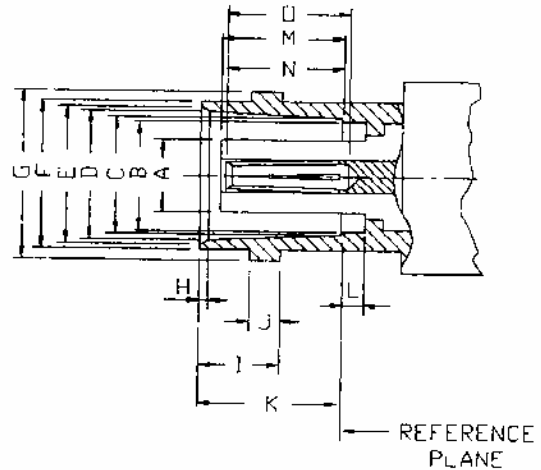
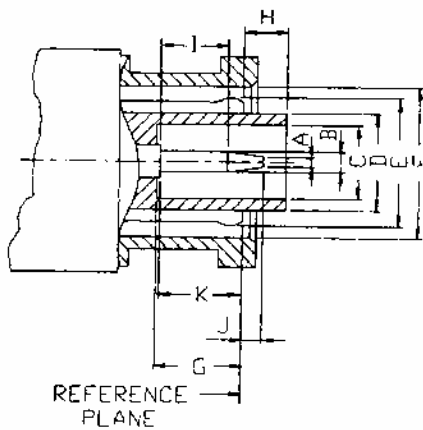
MHV

0 – 50 MHz

MHV connectors provide the user with shielded disconnects where high voltages are present, generally up to 5KV DC. The MHV has non-constant impedance characteristic and features polarized center contacts which connector with rated voltage applied will not result in electrical shock.

The MHV connectors are available in crimp, clamp and bulkhead receptacle jack and plug types. They are similar in size to, but are not intermateable with, BNC connectors. The devices are suitable for all high voltage applications up to 5KV DC.

INTERFACE DIMENSIONS:



PLUG		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	0.64 (.025)
B	1.32 (.052)	1.37 (.054)
C	4.83 (.190)	4.93 (.194)
D	7.06 (.278)	7.16 (.282)
E	SLOTTED AND FLARED TO MEET ELECTRICAL AND MECHANICAL REQUIREMENTS	
F	9.78 (.385)	9.91 (.390)
G	7.67 (.302)	-
H	-	2.18 (.086)
I	5.26 (.207)	-
J	-	0.13 (.005)
K	7.62 (.300)	-

JACK		
Letter	Millimeters (Inches)	
	Minimum	Maximum
A	-	4.72 (.186)
B	7.21 (.284)	7.37 (.290)
C	8.10 (.319)	8.15 (.321)
D	8.31 (.327)	8.46 (.333)
E	8.79 (.346)	9.04 (.356)
F	9.60 (.378)	9.70 (.382)
G	10.97 (.432)	11.07 (.436)
H	0.38 (.015)	0.76 (.030)
I	5.18 (.204)	5.28 (.208)
J	1.91 (.075)	2.06 (.081)
K	8.31 (.327)	8.51 (.335)
L	2.18 (.086)	-
M	7.34 (.289)	7.90 (.311)
N	6.43 (.253)	7.11 (.280)
O	6.86 (.270)	-

Electrical:

Impedance	Non-constant
Frequency Range	0 to 50 MHz
Dielectric Withstanding Voltage	5,000 volts rms max
Contact Resistance	center contact = 2.0 Milliohms max outer contact = 1.5 Milliohms max
Insulation Resistance	5,000 Megohms min

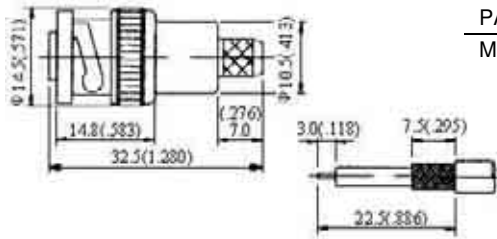
Mechanical & Environmental:

Mating	Two stud bayonet coupling
Durability	500 matings
Coupling Nut Retention	100 lbs min
Cable Retention	RG – 58, 141, 142 → 40 lbs min RG – 59, 62A → 40 lbs min
Temperature Range	-55 °C to 155 °C

Material:

	Material	Plating
Connector Body	Brass	Nickel
Center Contact	Male: Brass Female: Brass or Phosphor Bronze. Beryllium Copper	Gold Gold
Insulation	Teflon	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Straight Plug Crimp (MHV)

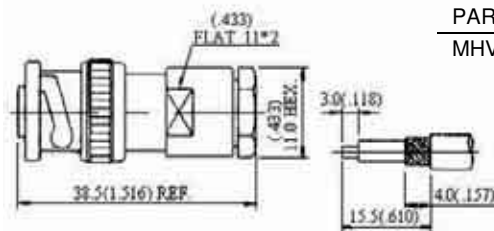


PART NO.	APPLICABLE CABLE RG/U
MHV-1101-TGN	59, 62A, 210

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Plug Clamp (MHV)

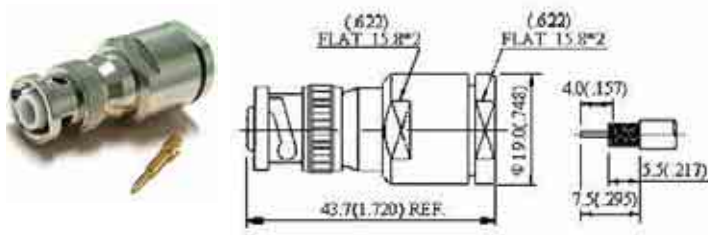


PART NO.	APPLICABLE CABLE RG/U
MHV-2102-TGN	59, 62A, 210

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Plug Clamp (MHV)

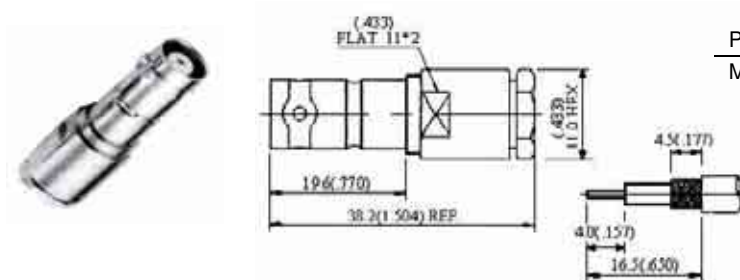


PART NO.	APPLICABLE CABLE RG/U
MHV-2103-TGN	8A, 213

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Jack Clamp (MHV)

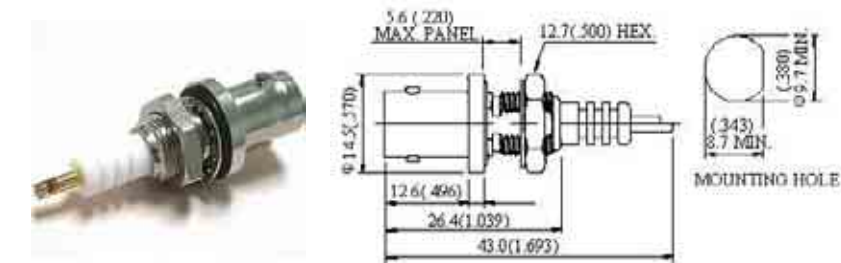


PART NO.	APPLICABLE CABLE RG/U
MHV-2201-TGN	59, 62A, 210

Description:
Flexible Cable-Clamp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (MHV)

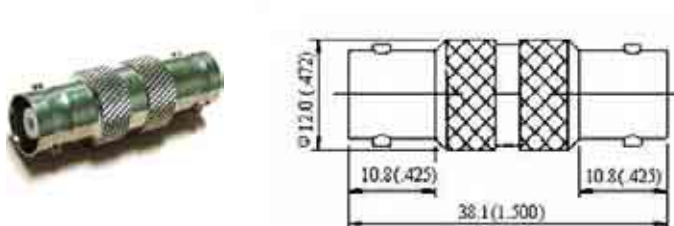


PART NO.
MHV-4201-TGN

Description:
Bulkhead Mount Receptacle

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Jack-Jack (MHV)



PART NO.
MHV-601-TGN

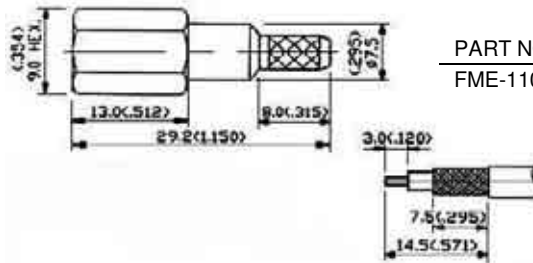
Description:
In-Series Adapters

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

FME

Flexible Cable – Crimp Attachment

Straight Plug Crimp (FME) (SAP)

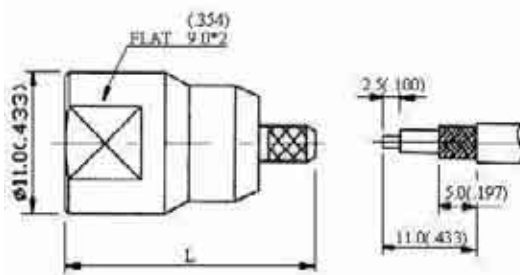


PART NO.	APPLICABLE CABLE RG/U
FME-1103-TGN	58, 58A, 141A

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Plug Crimp (FME) (SAP)



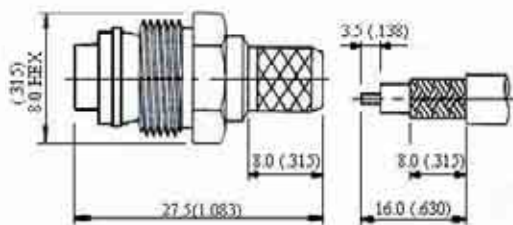
Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body

Insulation: Teflon

PART NO.	APPLICABLE CABLE RG/U	NOTES
FME-1104-TGN	58, 58A, 141A	L = 23,5 mm
FME-1105-TGN	174, 188A, 316	L = 21,5 mm

Straight Jack Crimp (FME) (SAP)



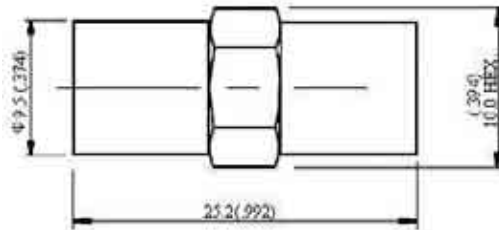
PART NO.	APPLICABLE CABLE RG/U
FME-1201-DGN	58, 58A, 141A
FME-1202-DGN	174, 188A, 316

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

FME - Adapters

FME Plug - FME Plug (FME) (SAP)

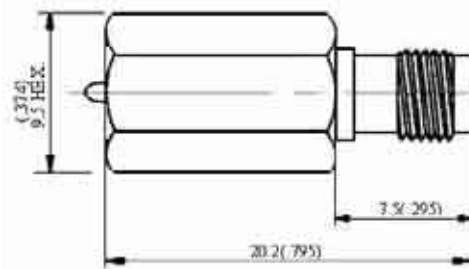


PART NO. _____
FME-601-DGN

Description:
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

FME Plug - SMA - Jack (FME) (SAP)

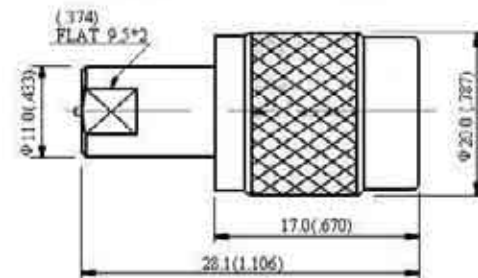


PART NO. _____
FME-602-TGN

Description:
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

FME Plug - N Plug (FME) (SAP)

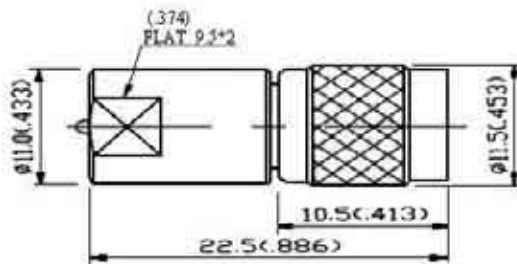


PART NO. _____
FME-603-DGN

Description:
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

FME Plug - Mini-UHF Plug (FME) (SAP)

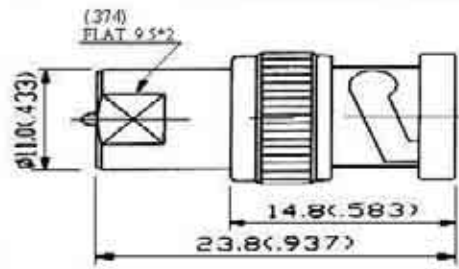


PART NO. _____
FME-604-DGN

Description:
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

FME Plug - BNC Plug (FME) (SAP)

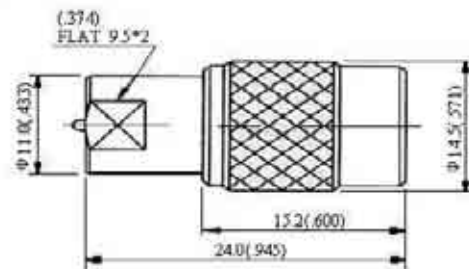


PART NO.
FME-605-DGN

Description:
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

FME Plug - TNC Plug (FME) (SAP)

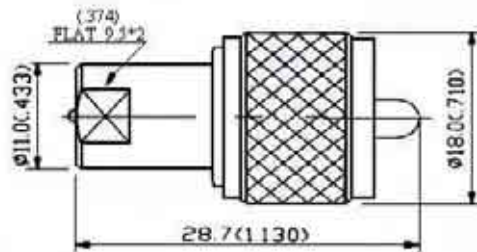


PART NO.
FME-606-DGN

Description:
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

FME Plug - UHF Plug (FME) (SAP)

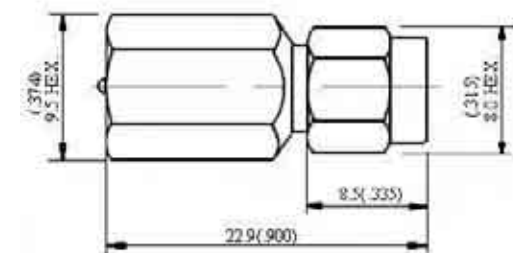


PART NO.
FME-607-DGN

Description:
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

FME Plug - SMA Plug (FME) (SAP)



PART NO.
FME-608-TGN

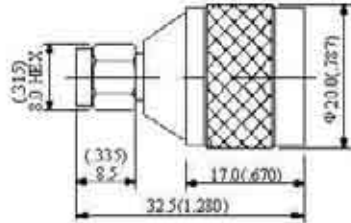
Description:
Adapters(FME)(SAP)

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

BETWEEN SERIES ADAPTERS

SMA to N Adapters

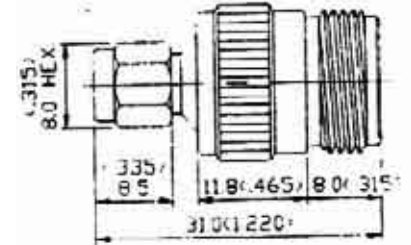
SMA Plug - N Plug



PART NO.
SMAp-Np-601-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

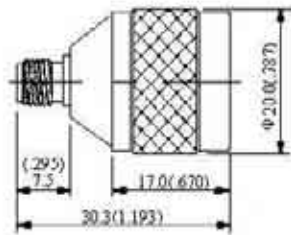
SMA Plug – N Jack



PART NO.
SMAp-Nj-602-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

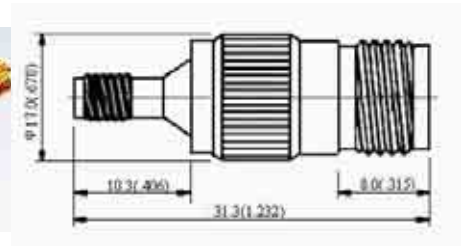
SMA Jack - N Plug



PART NO.
SMAj-Np-603-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

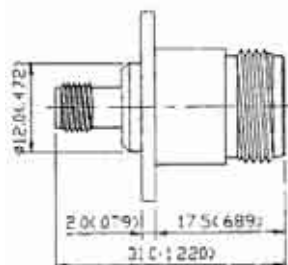
SMA Jack - N Jack



PART NO.
SMAj-Nj-604-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

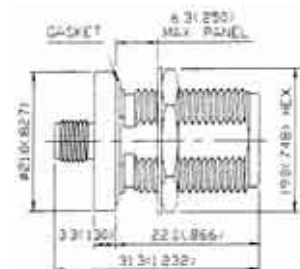
SMA Jack – N Jack Panel



PART NO.
SMAj-Njp-605-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

SMA Jack – N Jack Bulkhead



PART NO.
SMAj-Njb-606-TGN

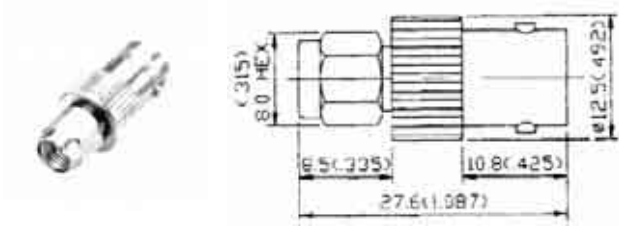
Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

BETWEEN SERIES ADAPTERS



SMA to BNC Adapters

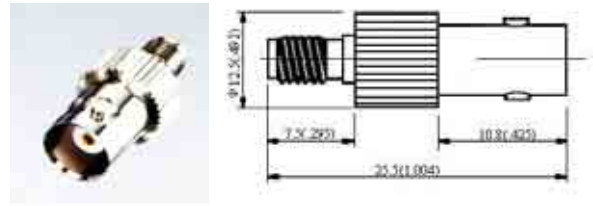
SMA Plug – BNC Jack



PART NO.
SMAp-BNCj-607-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

SMA Jack - BNC Jack

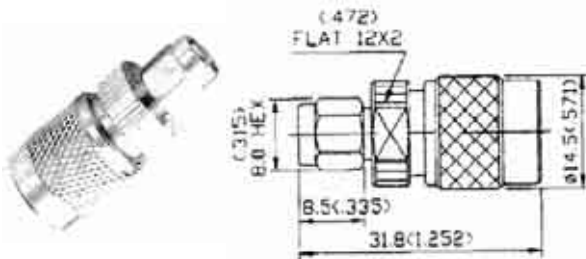


PART NO.
SMAj-BNCj-608-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

SMA to TNC Adapters

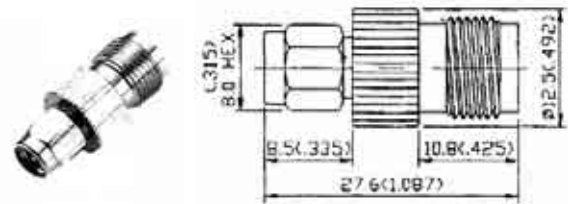
SMA Plug – TNC Plug



PART NO.
SMAp-TNCp-609-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

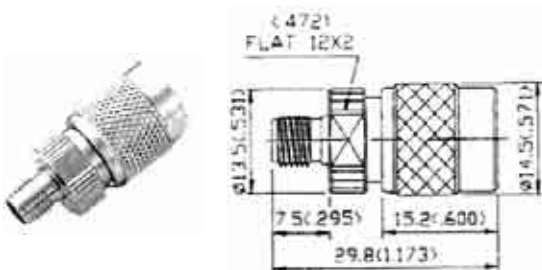
SMA Plug – TNC Jack



PART NO.
SMAp-TNCj-610-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

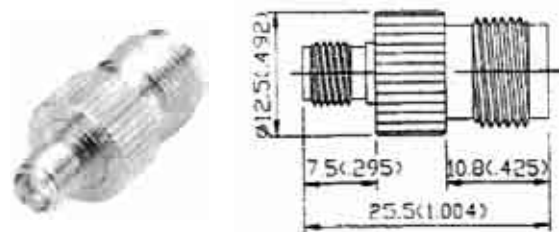
SMA Jack – TNC Plug



PART NO.
SMAj-TNCp-611-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

SMA Jack – TNC Jack

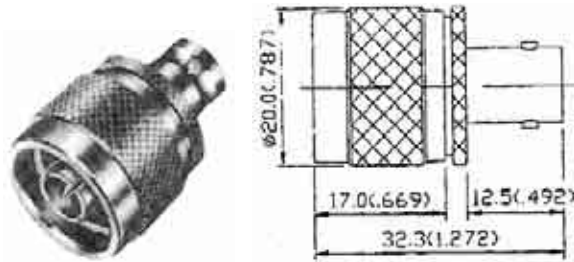


PART NO.
SMAj-TNCj-612-TGN

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

N to BNC Adapters

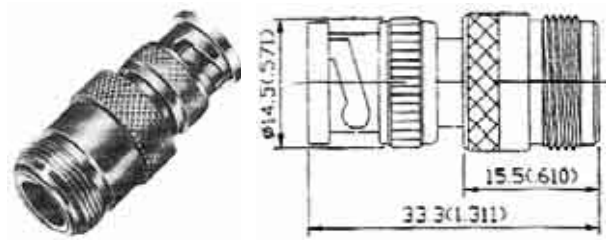
N Plug – BNC Jack



PART NO.
Np-BNCj-613-DGN

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

N Jack – BNC Plug

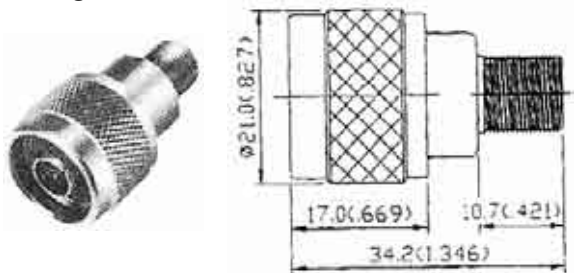


PART NO.
Nj-BNCp-614-DGN

Finish: Gold plated center contact & nickel plated body
Insulation: Delrin

N to F Adapters

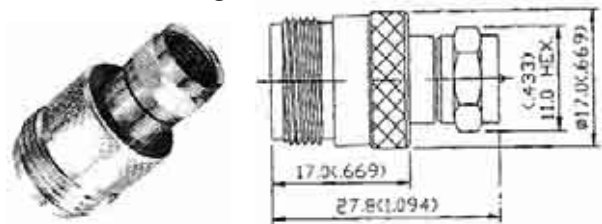
N Plug – F Jack



PART NO.
Np-Fj-615-TGN (75 ohm)

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

N Jack – F Plug

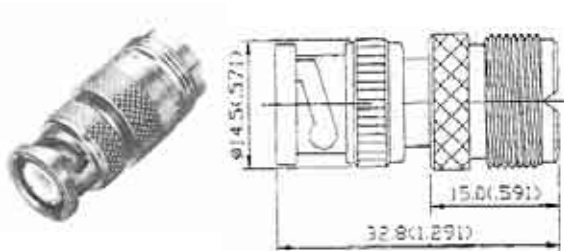


PART NO.
Nj-Fp-616-TGN (75 ohm)

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

BNC to UHF Adapters

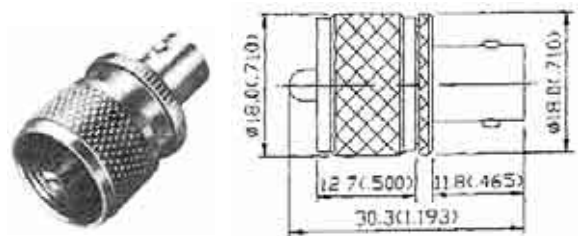
BNC Plug – UHF Jack



PART NO.
BNCp-UHFj-617-DNN

Finish: Gold plated center contact & body
Insulation: Delrin

BNC Jack – UHF Plug



PART NO.
BNCj-UHFp-618-DNN

Finish: Gold plated center contact & body
Insulation: Delrin

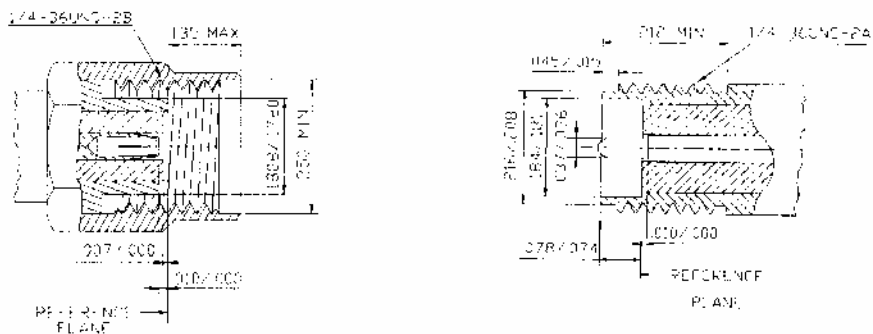
REVERSE POLARITY CONNECTORS

(SMA, BNC, TNC)

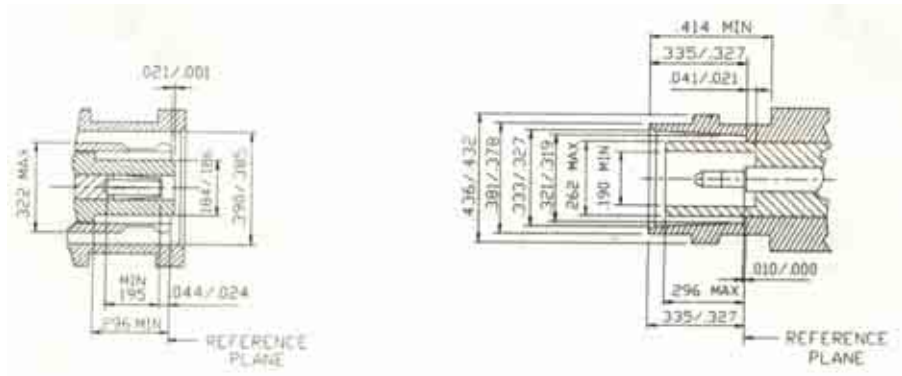
Reverse Polarity non-standard interface connectors are designed for spread spectrum wireless applications where part 15.203 of U. S. FCC regulations are applicable. The reverse polarity design prevents damage and will not mate with standard interface devices if accidentally connected. SMA, BNC and TNC devices are readily available. Standard cable affixment sizes are available with special or custom design inquires accepted.

INTERFACE DIMENSIONS:

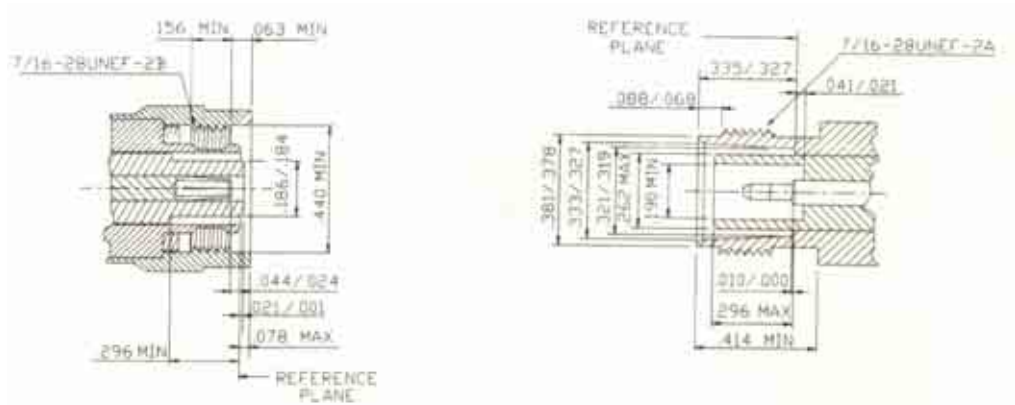
Reverse Polarity SMA:



Reverse Polarity BNC:



Reverse Polarity TNC:



Notes: Unit of "Inch"

Reverse Polarity SMA:

Electrical:

Impedance	50 ohm	
Frequency Range	0 to 18.0 GHz <ul style="list-style-type: none"> for RG – 402 & RG – 405 semi-rigid cable – 8 to 18.0 GHz for flexible cable → max operation frequency of cable per MIL-C-17 	
VSWR	Semi-rigid Cable <ul style="list-style-type: none"> 1.05 + 0.005 x f GHz max (straight) 1.15 + 0.015 x f GHz max (right angle) 	Flexible Cable <ul style="list-style-type: none"> 1.15 + 0.01 x f GHz max (straight) 1.18 + 0.02 x f GHz max (right angle)
Voltage Rating	375 volts rms	
Dielectric Withstanding Voltage	1000 volts rms	
Insertion Loss	.04 dB maximum X \sqrt{f} GHz (straight); 0.6 dB maximum X \sqrt{f} GHz (right angle)	
Insulation Resistance	5,000 Megohms min	

Mechanical & Environmental:

Mating	1/4" – 36 threaded coupling
Durability	500 matings
Coupling Nut Retention	Min 60 lbs
Cable Retention	RG – 58, 141, 142, 223 → 40 lbs min; RG – 174, 188, 316 → 20 lbs min
Temperature Range	-65 °C to 165 °C

Material:

	Material	Plating
Connector Body	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Beryllium Copper	Gold
Insulation	Teflon	None
Gasket	Silicone Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Reverse Polarity BNC, TNC:

Electrical:

Impedance	BNC: 50 ohm	TNC: 50 ohm
Frequency Range	BNC: 0 – 4 GHz	TNC: 0 – 11 GHz
VSWR	1.3 max	
Voltage Rating	500 volts rms	
Dielectric Withstanding Voltage	1,5000 volts rms	
Insertion Loss	.2 dB max @ 3 GHz	
Insulation Resistance	5,000 Megohms min	

Mechanical & Environmental:

Mating	BNC: Two stud bayonet coupling	TNC: 7/16" – 28 thread coupling
Durability	500 matings	
Coupling Nut Retention	100 lbs min	
Cable Retention	RG – 58, 141, 142, 223 → 40 lbs min; RG – 59, 62A, 210 → 40 lbs min;	

REVERSE POLARITY CONNECTORS



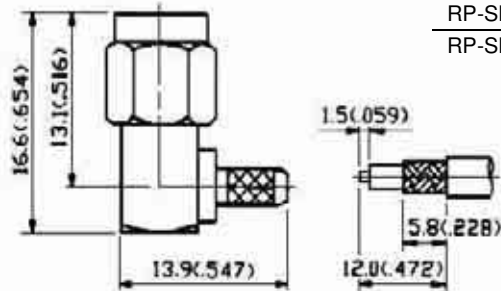
	RG – 174, 188, 316 → 20 lbs min
Temperature Range	-65 °C to 85 °C

Material:

	Material	Plating
Connector Body	Brass	Nickel
Center Contact	Male: Brass Female: Brass or Phosphor Bronze	Gold
Insulation	Teflon	None
Gasket	Silicone Rubber, Rubber	None
Crimp Ferrule	Annealed Copper	Same as Body

Right Angle Plug Crimp (RP-SMA)

PART NO.	APPLICABLE CABLE RG/U
RP-SMA-1101-TGG	58, 58A, 141A
RP-SMA-1102-TGG	174, 188A, 316
RP-SMA-1103-TGG	142B/U

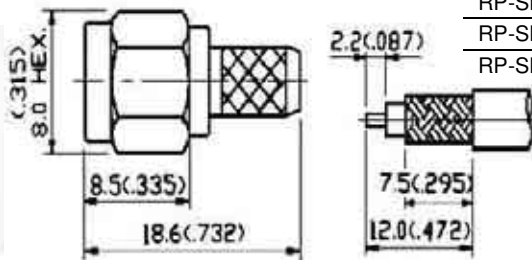


Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Plug Crimp (RP-SMA)

PART NO.	APPLICABLE CABLE RG/U
RP-SMA-1104-TGG	58, 58A, 141A
RP-SMA-1105-TGG	174, 188A, 316
RP-SMA-1106-TGG	142B/U

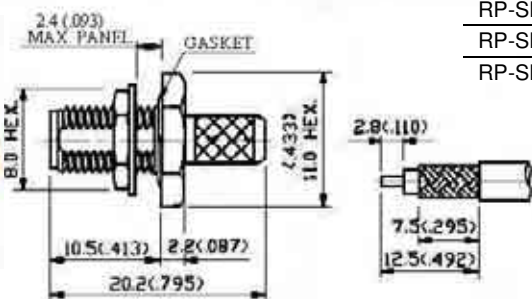


Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Bulkhead Jack Crimp (RP-SMA)

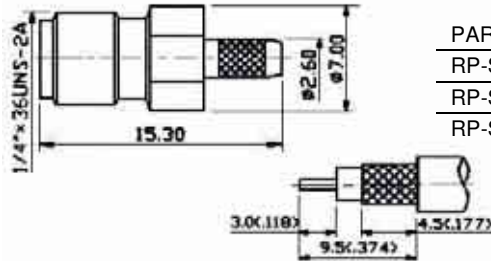
PART NO.	APPLICABLE CABLE RG/U
RP-SMA-1207-TGG	58, 58A, 141A
RP-SMA-1208-TGG	174, 188A, 316
RP-SMA-1209-TGG	142B/U



Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Bulkhead Jack Crimp (RP-SMA)

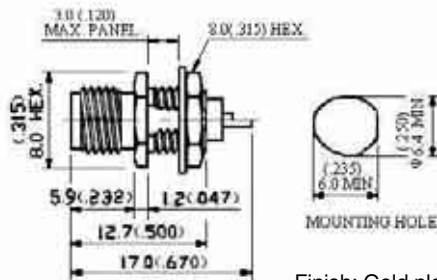


PART NO.	APPLICABLE CABLE RG/U
RP-SMA-1210-TGG	58, 58A, 141A
RP-SMA-1211-TGG	174, 188A, 316
RP-SMA-1212-TGG	142B/U

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (Front Mount) (RP-SMA)

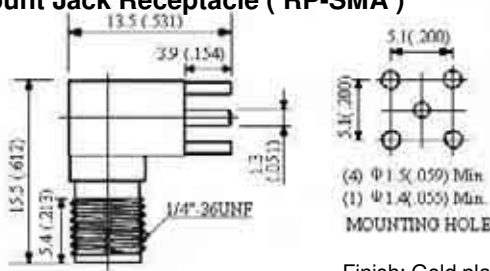


PART NO.
RP-SMA-4201-TGG

Description:
Bulkhead,PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Right Angle PCB Mount Jack Receptacle (RP-SMA)

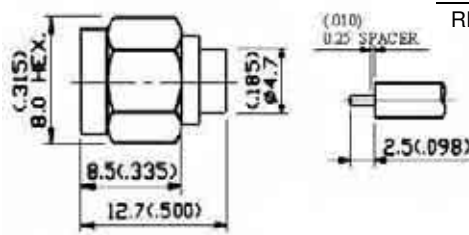


PART NO.
RP-SMA-5201-TGG

Description:
Bulkhead,PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Plug (RP-SMA)

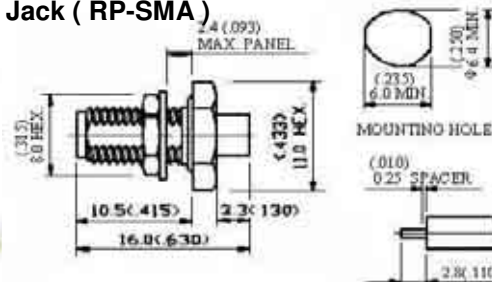


PART NO.	APPLICABLE CABLE RG/U
RP-SMA-7101-TGG	RG 402/u (.141")
RP-SMA-7102-TGG	RG 405/u (.085")

Description:
For Semi-Rigid Cable Direct Solder Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Right Bulkhead Jack (RP-SMA)



PART NO.	APPLICABLE CABLE RG/U
RP-SMA-7103-TGG	RG 402/u (.141")
RP-SMA-7104-TGG	RG 405/u (.085")

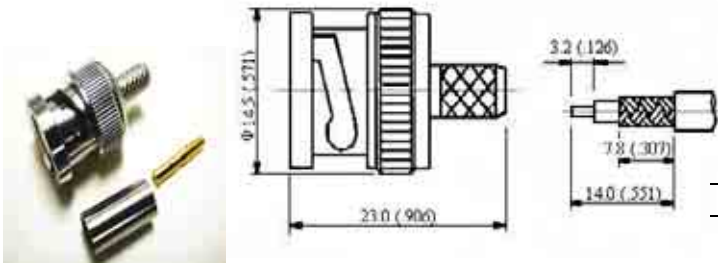
Description:
For Semi-Rigid Cable Direct Solder Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

REVERSE POLARITY CONNECTORS



Straight Plug Crimp (RP-BNC)

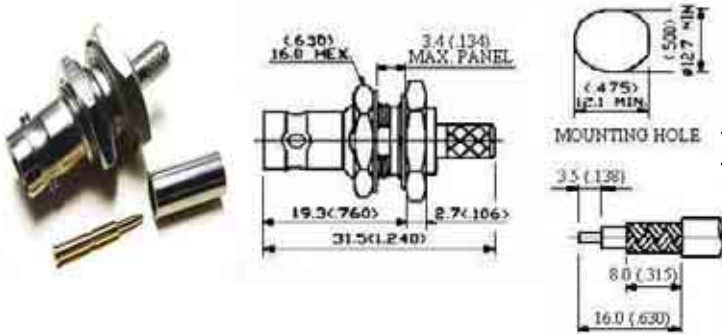


PART NO.	APPLICABLE CABLE RG/U
RP-BNC-1101-TGN	58, 58A, 141A
RP-BNC-1102-TGN	142B/U

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Bulkhead Jack Crimp (RP-BNC)

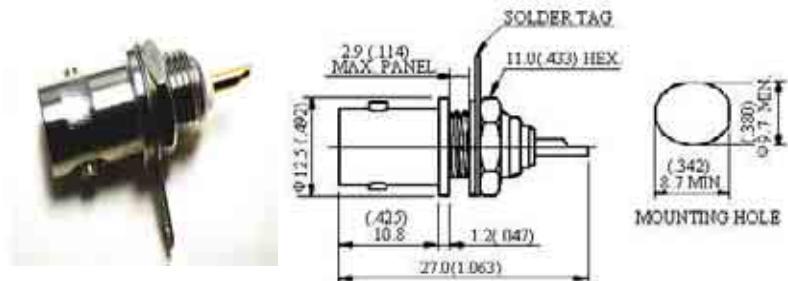


PART NO.	APPLICABLE CABLE RG/U
RP-BNC-1203-TGN	58, 58A, 141A
RP-BNC-1204-TGN	142B/U

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (RP-BNC)

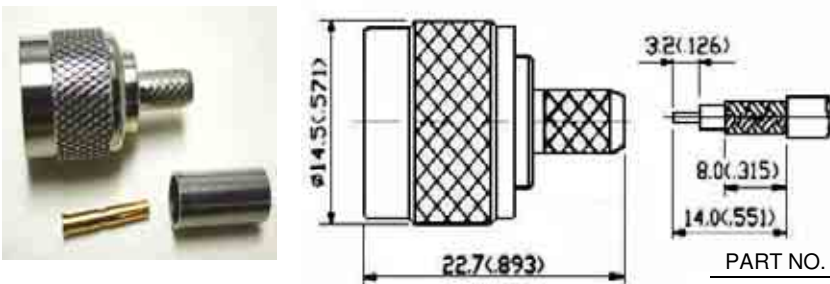


PART NO.
RP-BNC-4201-TGN

Description:
Bulkhead,PCB Mount Receptacles

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Plug Crimp (RP-TNC)

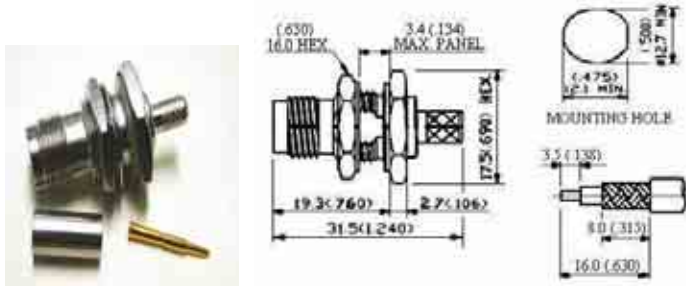


PART NO.	APPLICABLE CABLE RG/U
RP-TNC-1101-TGN	58, 58A, 141A
RP-TNC-1102-TGN	142B/U

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Bulkhead Jack Crimp (RP-TNC)

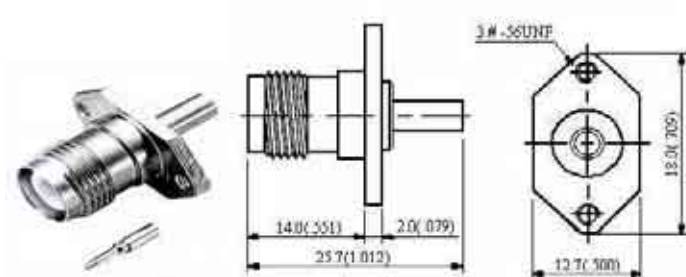


PART NO.	APPLICABLE CABLE RG/U
RP-TNC-1203-TGN	58, 58A, 141A
RP-TNC-1204-TGN	142B/U

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

2 Hole Flange Jack Crimp (RP-TNC)

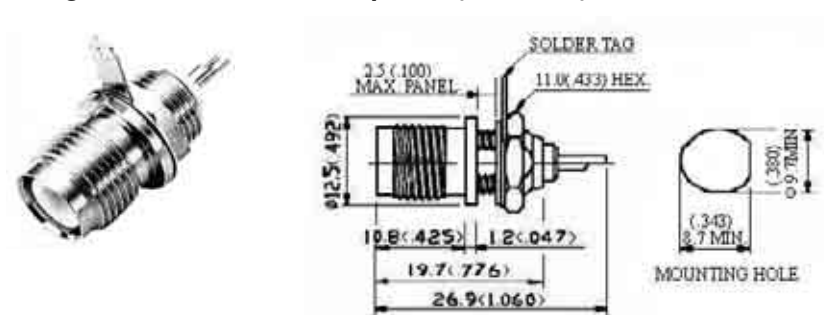


PART NO.	APPLICABLE CABLE RG/U
RP-TNC-1205-TGN	178, 196

Description:
Flexible Cable-Crimp Attachment

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

Straight Bulkhead Jack Receptacle (RP-TNC)



PART NO.
RP-TNC-4201-TGN

Description:
Bulkhead Receptacle

Finish: Gold plated center contact & nickel plated body
Insulation: Teflon

CABLE ASSEMBLIES

SMA SERIES

SMA Right Angle Plug to Right Angle Plug



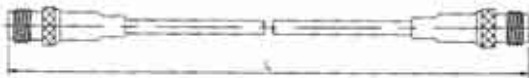
PART NO.	CONNECTORS	CABLE
SM-0001-174-XXXX	SMA-1101-TGG BOTH ENDS	174/U
SM-0002-316-XXXX	SMA-1102-TGG BOHT ENDS	316/U
SM-0003-58-XXXX	SMA-1101-TGG BOHT ENDS	58C/U

SMA Straight Plug to Straight Plug



PART NO.	CONNECTORS	CABLE
SM-0004-174-XXXX	SMA-1105-TGG BOTH ENDS	174/U
SM-0005-316-XXXX	SMA-1105-TGG BOHT ENDS	316/U
SM-0006-58-XXXX	SMA-1104-TGG BOHT ENDS	58C/U

SMA Straight Jack to Straight Jack



PART NO.	CONNECTORS	CABLE
SM-0008-174-XXXX	SMA-1208-TGG BOTH ENDS	174/U
SM-0009-316-XXXX	SMA-1208-TGG BOHT ENDS	316/U
SM-00010-58-XXXX	SMA-1207-TGG BOHT ENDS	58C/U

SMB SERIES

SMB Straight Plug to Straight Plug



PART NO.	CONNECTORS	CABLE
SM-0001-174-XXXX	SMB-1101-TGG BOTH ENDS	174/U
SM-0002-316-XXXX	SMB-1101-TGG BOHT ENDS	316/U
SM-0003-178-XXXX	SMB-1102-TGG BOHT ENDS	178/U

SMB Straight Jack to Straight Jack



PART NO.	CONNECTORS	CABLE
SM-0004-174-XXXX	SMB-1203-TGG BOTH ENDS	174/U
SM-0005-316-XXXX	SMB-1203-TGG BOHT ENDS	316/U
SM-0006-178-XXXX	SMB-1204-TGG BOHT ENDS	178/U

SMB Right Angle Plug to Right Angle Plug



PART NO.	CONNECTORS	CABLE
SM-0007-174-XXXX	SMB-1107-TGG BOTH ENDS	174/U
SM-0008-316-XXXX	SMB-1107-TGG BOHT ENDS	316/U
SM-0009-178-XXXX	SMB-1108-TGG BOHT ENDS	178/U

MCX SERIES

MCX Straight Plug to Straight Plug



PART NO.	CONNECTORS	CABLE
SM-0002-174-XXXX	MCX-1101-TGG BOTH ENDS	174/U
SM-0003-316-XXXX	MCX-1101-TGG BOHT ENDS	316/U

MCX Straight Jack to Straight Jack



PART NO.	CONNECTORS	CABLE
SM-0004-174-XXXX	MCX-1203-TGG BOTH ENDS	174/U
SM-0005-316-XXXX	MCX-1203-TGG BOHT ENDS	316/U

MCX Right Angle Plug to Right Angle Plug



PART NO.	CONNECTORS	CABLE
SM-0006-174-XXXX	MCX-1105-TGG BOTH ENDS	174/U
SM-0007-316-XXXX	MCX-1105-TGG BOHT ENDS	316/U

MCX PCB Cable Terminal



PART NO.	CONNECTORS	CABLE
SM-0008-174-XXXX	MCX-5003-TGG ONE END	174/U
SM-0009-316-XXXX	MCX-5003-TGG ONE END	316/U

TNC SERIES

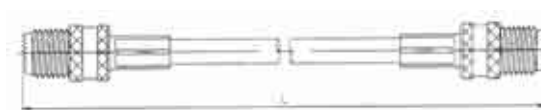
TNC Straight Plug to Straight Plug



PART NO.	CONNECTORS	CABLE
SM-0002-58-XXXX	TNC-1101-DGN BOTH ENDS	58C/U
SM-0003-58-XXXX	TNC-1101-DGBC BOHT ENDS	58C/U

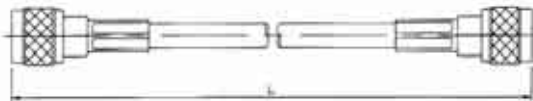
Mini-UHF SERIES

Mini-UHF Straight Jack to Straight Jack



PART NO.	CONNECTORS	CABLE
SM-0003-58-XXXX	Mini-UHF-1201-DGN BOHT ENDS	58C/U
SM-0004-174-XXXX	Mini-UHF-1201-DGN BOTH ENDS	174/U

Mini-UHF Straight Plug to Straight Plug



PART NO.	CONNECTORS	CABLE
SM-0005-58-XXXX	Mini-UHF-1104-DGN BOTH ENDS	58C/U
SM-0006-174-XXXX	Mini-UHF-1109-DGN BOHT ENDS	174/U
SM-0007-58-XXXX	Mini-UHF-1104-DGBC BOTH ENDS	58C/U
SM-0008-174-XXXX	Mini-UHF-1109-DGBC BOTH ENDS	174/U

FME (SAP) SERIES

FME Straight Jack to Straight Jack



PART NO.	CONNECTORS	CABLE
SM-0001-58-XXXX	FME-1201-DGN BOTH ENDS	58C/U
SM-0002-174-XXXX	FME-1202-DGN BOHT ENDS	174/U
SM-0015-58-XXXX	FME-1201-DGBC BOTH ENDS	58C/U
SM-0009-174-XXXX	FME-1202-DGBC BOTH ENDS	174/U

FME Straight Plug (One End)



PART NO.	CONNECTORS	CABLE
SM-0003-174-XXXX	FME-1104-TGN ONE END	174/U

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