



MCX Series

MCX

MCX (Micro-CoaX) series is with a “Snap On” coupling interface, which provides rapid and easy connections. It is similar to the SMB connectors, but this series offers approximately a 30% reduction in size. The impedance of the MCX is 50 or 75 ohms, and it can be operated up to the frequencies of 6GHz. The MCX range is suitable for the standard ranges of flexible & semi-rigid cables, and it is also available as a PCB mounted version.

Applications:

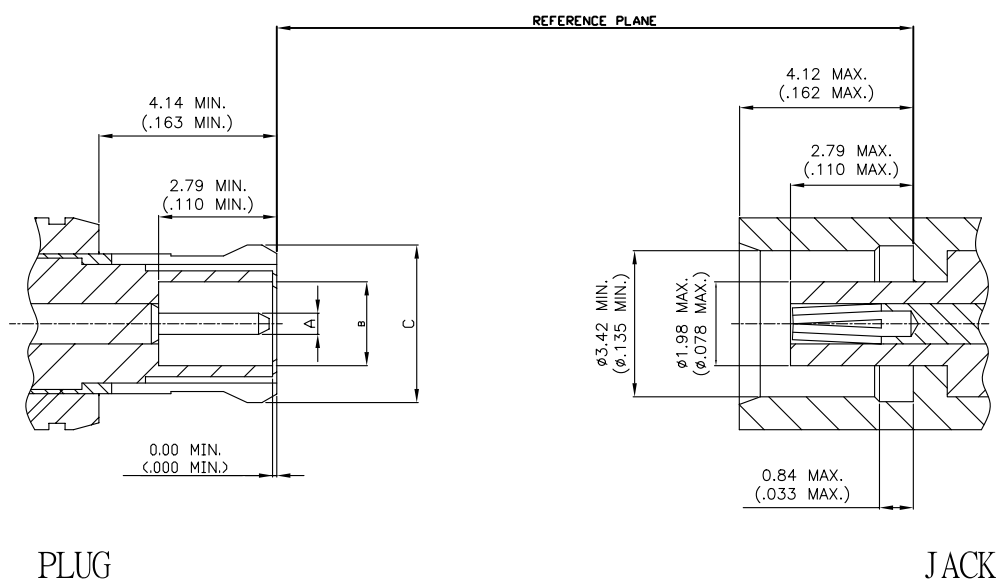
*GPS *cellular telephone *data telemetry *instrumentation *wireless *PC/LAN

Interface dimensions conformable to the Standards:

International: IEC 169-36

European: CECC 22220

MCX Interface Dimensions:



MCX Series					
PLUG			JACK		
	Minimum	Maximum		Minimum	Maximum
A	0.48<.019>	0.53<.021>			
B	2.00<.097>	2.07<.081>			
C	3.72<.146>	3.80<.150>			

*Millimeters(Inches)



Materials :

Connector part	Material	Finish
Bodies	Brass	Nickel or Gold
Center Contact	Male: Brass Female: Beryllium copper	Gold
Insulator	Teflon	N/A
Crimp ferrule	Anneal copper	Nickel or Gold

Electrical :

Electrical Data	Detail		
Impedance	50 ohm		
Frequency range	0~6 GHz		
Working voltage	RG178/U → 250 volts rms max. RG316/U, semi-rigid → 335 volts rms max.		
Insulation resistance	1,000 megohms min.		
Dielectric withstanding voltage	RG178/U → 750 volts rms max. RG316/U, semi-rigid → 1,000 volts rms max.		
Contact resistance	Center contact: 5.0 milliohm Outer contact: 1.0 milliohm		
VSWR : f (GHz)		Straight	Right angle
	RG-178/U	1.17+0.04f	1.07+0.06f
	RG-316/U, semi-rigid	1.13+0.04f	1.07+0.04f
Insertion loss	0.1 dB max. (straight) 0.2 dB max. (right angle)		

Mechanical :

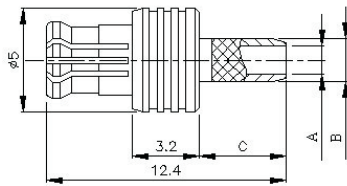
Mechanical Data	Detail
Engagement force	5.6 lbs max.
Disengagement force	3 lbs
Connector durability	500 matings
Cable retention force	RG178/U → 10 lbs min.
	RG316/U → 20 lbs min.
	Semi-rigid → 30 lbs min.

Environmental :

Environmental Data	Detail
Corrosion (Salt spray)	MIL-STD-202 METHOD 101 CONDITION B
Thermal shock	MIL-STD-202 METHOD 107 CONDITION F
Vibration	MIL-STD-202 METHOD 204 CONDITION B
Mechanical shock	MIL-STD-202 METHOD 213 CONDITION B
Temperature range	-65°C to 165°C

MCX STRAIGHT PLUG FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE

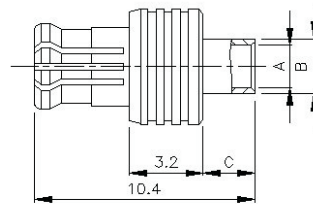


PART NUMBER:

MCX-01LV5-TGG(-RP)	RD-316/U
MCX-01LV1-TGG(-RP)	RG-174,316
MCX-01M-TGG(-RP)	RG-178/U
MCX-01N-TGG(75Ohm)	RG-179/U
MCX-01U-TGG(-RP)	1.30MM CABLE



SOLDER FOR SEMI-RIGID CABLE



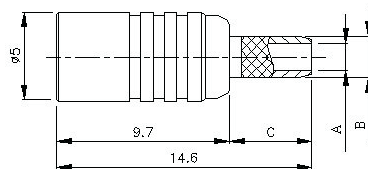
PART NUMBER:

MCX-01V1-TGG(-RP)	RG-405/U(.085")
MCX-01V3-TGG(-RP)	M17/151(.047")



MCX STRAIGHT JACK FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE

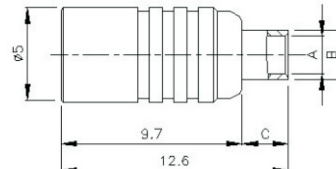


PART NUMBER:

MCX-02LV5-TGG(-RP)	RD-316/U
MCX-02LV1-TGG(-RP)	RG-174,316/U
MCX-02M-TGG(-RP)	RG-178/U
MCX-02N-TGG(75Ohm)	RG-179/U
MCX-02U-TGG(-RP)	1.30MM CABLE

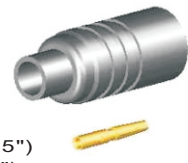


SOLDER FOR SEMI-RIGID CABLE



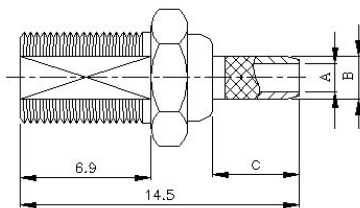
PART NUMBER:

MCX-02V1-TGG(-RP)	RG-405/U(.085")
MCX-02V3-TGG(-RP)	M17/151(.047")



MCX STRAIGHT BULKHEAD JACK FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE

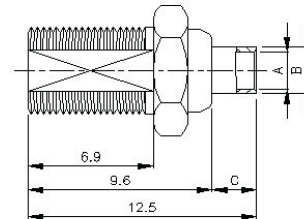


PART NUMBER:

MCX-10LV5-TGG(-RP)	RD-316/U
MCX-10LV1-TGG(-RP)	RG-174,316/U
MCX-10M-TGG(-RP)	RG-178/U
MCX-10N-TGG(75Ohm)	RG-179/U
MCX-10U-TGG(-RP)	1.30MM CABLE

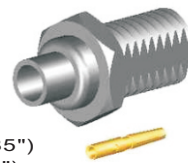


SOLDER FOR SEMI-RIGID CABLE



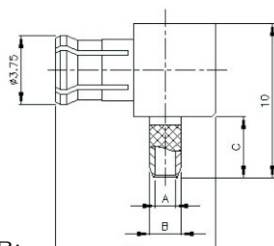
PART NUMBER:

MCX-10V1-TGG(-RP)	RG-405/U(.085")
MCX-10V3-TGG(-RP)	M17/151(.047")



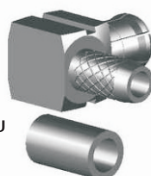
MCX RIGHT ANGLE PLUG FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE

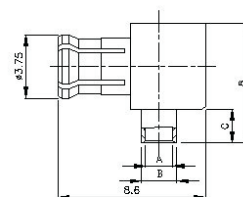


PART NUMBER:

MCX-04LV5-TGG(-RP)	RD-316/U
MCX-04LV1-TGG(-RP)	RG-174,316/U
MCX-04M-TGG(-RP)	RG-178/U
MCX-04N-TGG(75Ohm)	RG-179/U
MCX-04U-TGG(-RP)	1.30MM CABLE

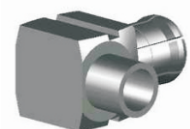


SOLDER FOR SEMI-RIGID CABLE



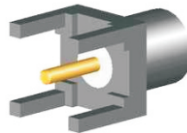
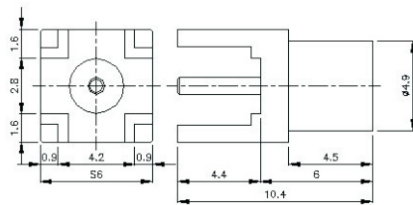
PART NUMBER:

MCX-04V1-TGG(-RP)	RG-405/U(.085")
MCX-04V3-TGG(-RP)	M17/151(.047")



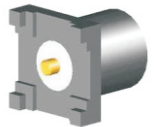
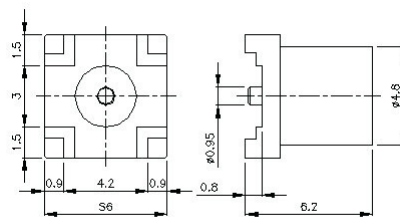


MCX STRAIGHT JACK PCB MOUNT RECEPTACLE



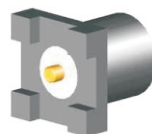
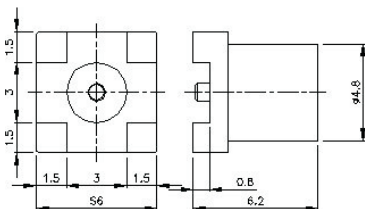
PART NUMBER:
MCX-05-TGG(-RP)

SURFACE MOUNT



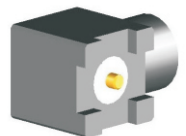
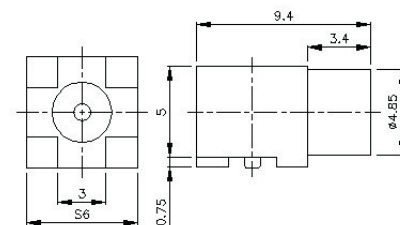
PART NUMBER:
MCX-05V4-TGG(-RP)

SURFACE MOUNT



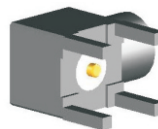
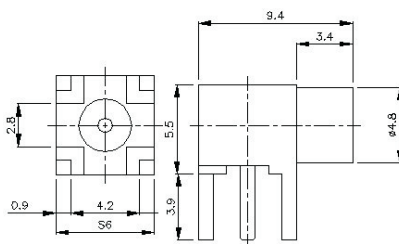
PART NUMBER:
MCX-05V5-TGG(-RP)

MCX ANGLE JACK PCB MOUNT

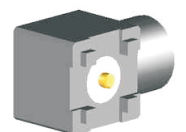
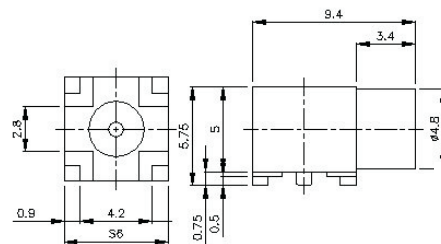


PART NUMBER:
MCX-11V5-TGG(-RP)

SURFACE MOUNT

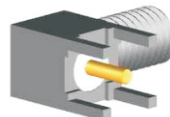
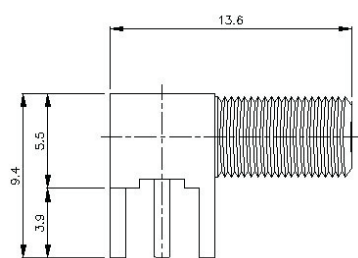


PART NUMBER:
MCX-11-TGG



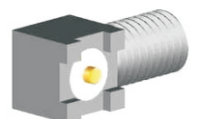
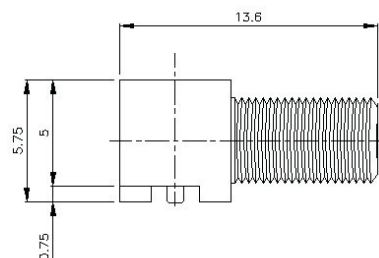
PART NUMBER:
MCX-11V4-TGG

MCX RIGHT ANGLE BULKHEAD JACK PCB MOUNT



PART NUMBER:
MCX-08-TGG

SURFACE MOUNT

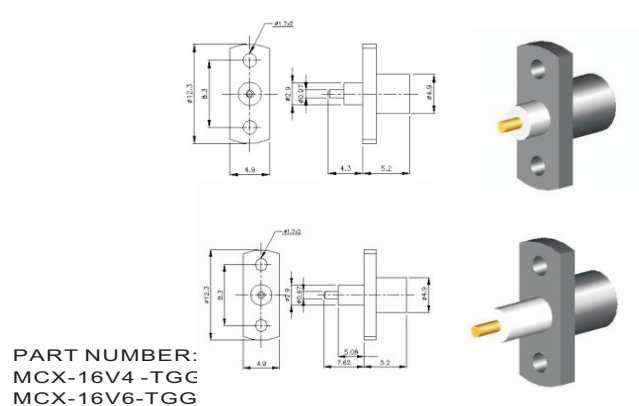
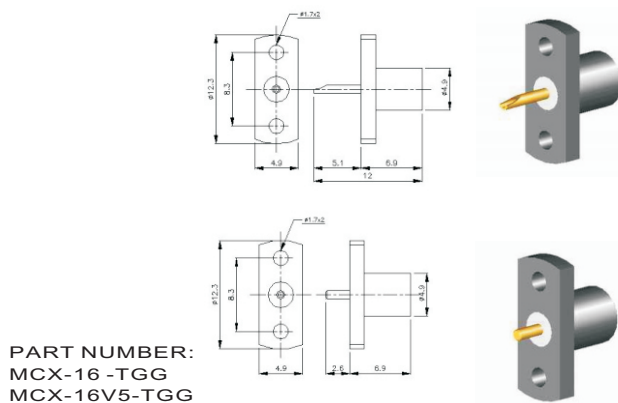


PART NUMBER:
MCX-08V4-TGG

MCX

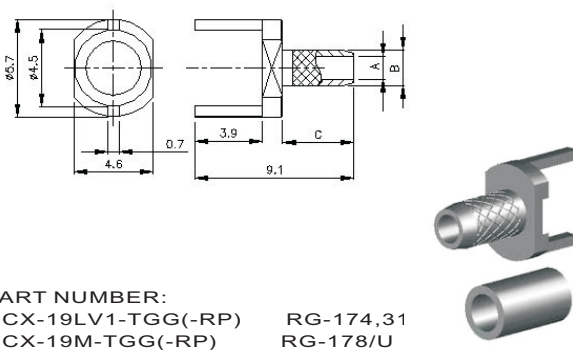


MCX STRAIGHT JACK FLANGE MOUNT RECEPTACLE

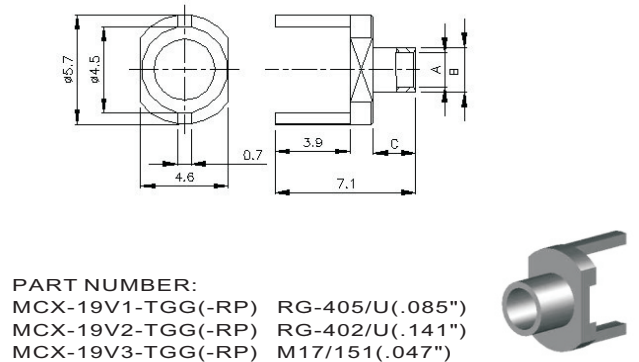


MCX STRAIGHT PCB 2 HOLES MOUNT FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE

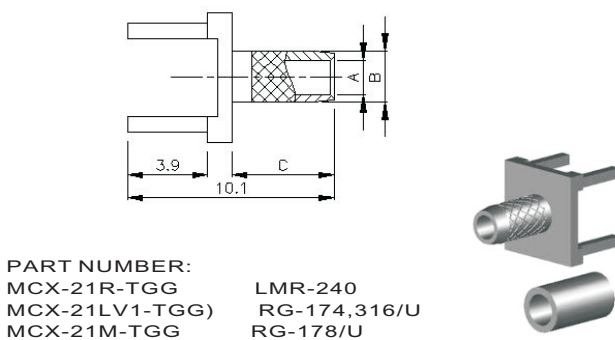


SOLDER FOR SEMI-RIGID CABLE

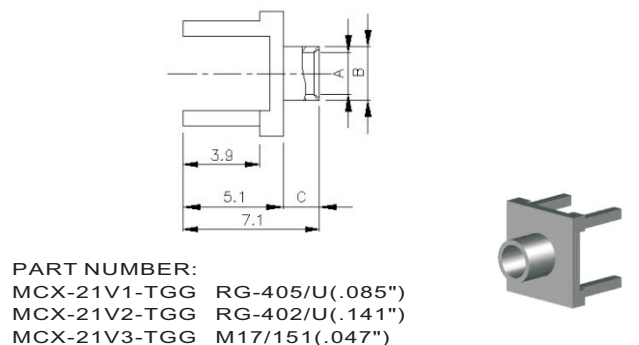


MCX STRAIGHT PCB 4 HOLES MOUNT FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE

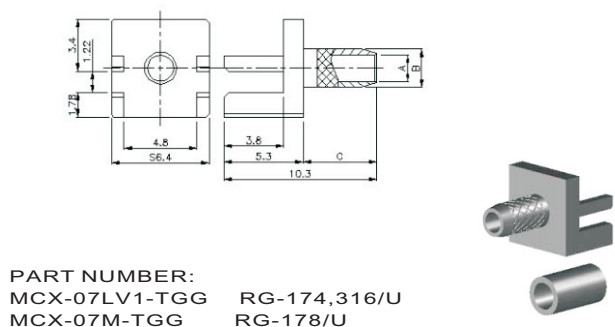


SOLDER FOR SEMI-RIGID CABLE

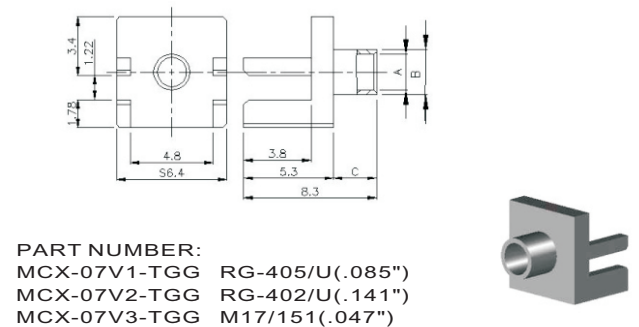


MCX STRAIGHT END LAUNCH FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE

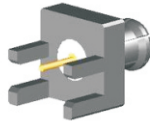
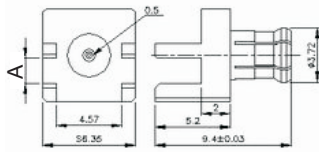


SOLDER FOR SEMI-RIGID CABLE



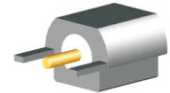
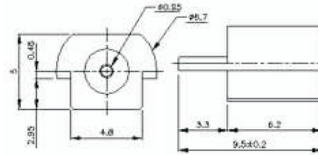
MCX

MCX PLUG END LAUNCH RECEPTACLE



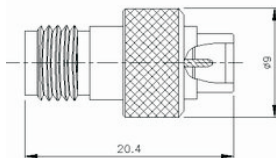
PART NUMBER:	BOARD THICKNESS	A
MCX-24-TGG(-RP)	1.57	1.73
MCX-24V5-TGG(-RP)	1.07	1.22
MCX-24V6-TGG(-RP)	0.79	0.94

MCX JACK EDGE MOUNT RECEPTACLE



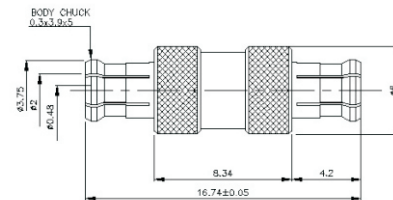
PART NUMBER:
MCX-14 -TGG

MCX JACK -SMA JACK ADAPTOR



PART NUMBER:
MCX-22 -TGG
MCX-22-TGG-RP(SMA - R.P MCX)

MCX PLUG -MCX PLUG ADAPTOR



PART NUMBER:
MCX-23 -TGG

A

MCX