MMCX Series

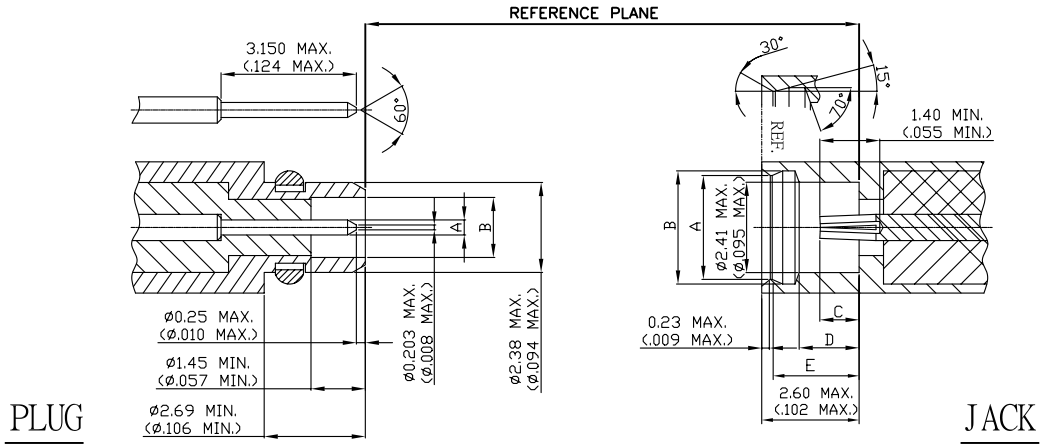
MMCX

MMCX series is for use where the small dimensions have to be achieved. It's supplied with a snap on interface like SMB connectors, but in size is 45% smaller. The impedance of MMCX is controlled at 50 ohms, and it can be operated up to the frequencies of 6GHz. The MMCX connector is suitable for the standard ranges of flexible & semi-rigid cables, and it is also available as a PCB mounted version.

Applications:
*antennas *wireless LANs *PCMCIA cards *instrumentation *GPS *cellular telephones *satellite reception terminals *radio boards *RF test ports *broadband communications *base stations

Interface dimensions conformable to the Standards:
European: CECC 22340

MMCX 50Ω Interface Dimensions:



MMCX Series					
PLUG				JACK	
	Minimum	Maximum		Minimum	Maximum	
A	0.38(.015)	0.43(.017)		2.87(.113)	2.90(.114)	A
B	1.57(.057)	1.63(.064)		3.00(.118)	3.05(.120)	B
				0.89(.035)	1.20(.047)	C
				1.57(.062)	1.63(.064)	D
				2.30(.091)	2.34(.092)	E

*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	Annealed copper	Nickel or Gold

Electrical：

Electrical Data	Detail
Impedance	50 ohm
Frequency range	0~6 GHz
Working voltage	170 volts rms max. at sea level
Insulation resistance	1,000 megohms min.
Dielectric withstanding voltage	500 volts rms min. at sea level
Contact resistance	Center contact: 5 milliohms max. Outer contact: 2.5 milliohms max.
VSWR	Straight: 1.3 max. Right angle: 1.5 max.
Insertion loss	0.2 dB max. at 1 GHz (straight) 0.3 dB max. at 1 GHz (right angle)

Mechanical：

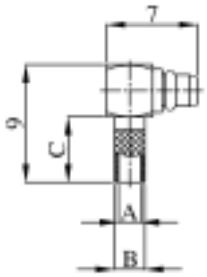
Mechanical Data	Detail
Engagement force	3.4 lbs max.
Disengagement force	1.4 lbs ~ 3.4 lbs
Connector durability	500 cycles min.
Cable retention force	RG174, 188, 316/U → 20 lbs min. RG178/U → 6 lbs min.

Environmental：

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

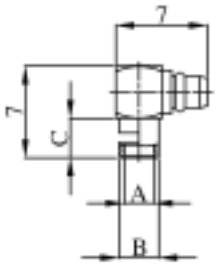
MMCX RIGHT ANGLE PLUG FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
MMCX-01LV1-TGG	1.7	2.6	5	174 , 188A , 316
MMCX-01M-TGG	0.9	1.9	5	178 , 196

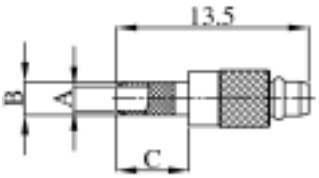
SOLDER FOR SEMI-RIGID CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
MMCX-01V1-TGG	2.3	3	3.3	RG405U(.085")
MMCX-01V3-TGG	1.4	2.2	3.3	UT-47(.047")

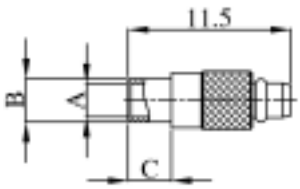
MMCX STRAIGHT PLUG FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
MMCX-02LV1-TGG	1.7	2.6	5	174 , 188A , 316
MMCX-02M-TGG	0.9	1.9	5	178 , 196

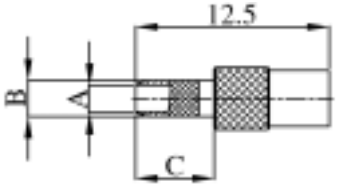
SOLDER FOR SEMI-RIGID CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
MMCX-02V1-TGG	2.3	3	3.3	RG405U(.085")
MMCX-02V3-TGG	1.4	2.2	3.3	UT-47(.047")

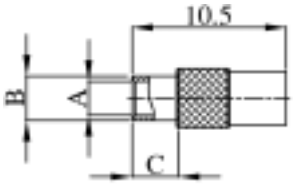
MMCX STRAIGHT JACK FOR CABLE TYPE

CRIMP FOR FLEXIBLE CABLE



PART NUMBER	A	B	C	CABLE TYPE(RG/U)
MMCX-06LV1-TGG	1.7	2.6	5	174 , 188A , 316
MMCX-06M-TGG	0.9	1.9	5	178 , 196

SOLDER FOR SEMI-RIGID CABLE

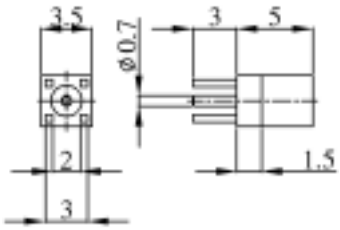


PART NUMBER	A	B	C	CABLE TYPE(RG/U)
MMCX-06V1-TGG	2.3	3	3.3	RG405U(.085")
MMCX-06V3-TGG	1.4	2.2	3.3	UT-47(.047")

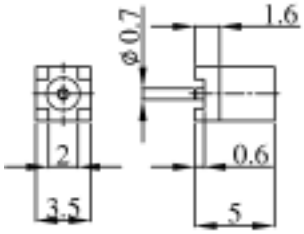
TGG : TEFLON INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY

MMCX STRAIGHT JACK PCB RECEPTACLE

SURFACE MOUNT



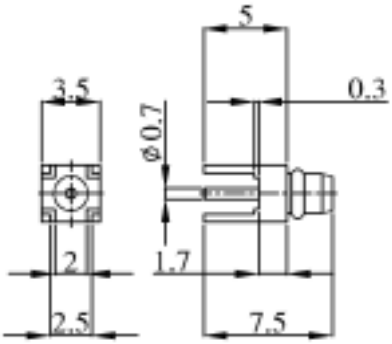
PART NUMBER	MMCX-03-TGG



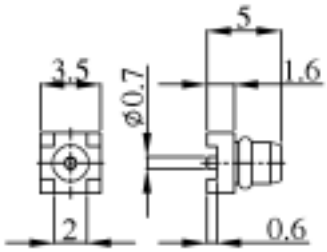
PART NUMBER	MMCX-03V4-TGG

MMCX STRAIGHT PLUG PCB RECEPTACLE

SURFACE MOUNT



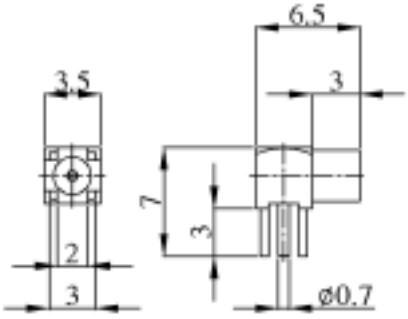
PART NUMBER	MMCX-07-TGG



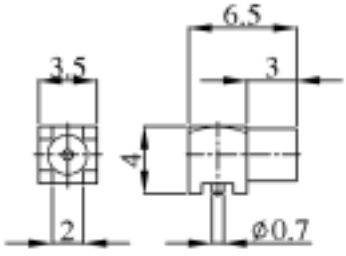
PART NUMBER	MMCX-07V4-TGG

MMCX RIGHT ANGLE JACK PCB RECEPTACLE

SURFACE MOUNT



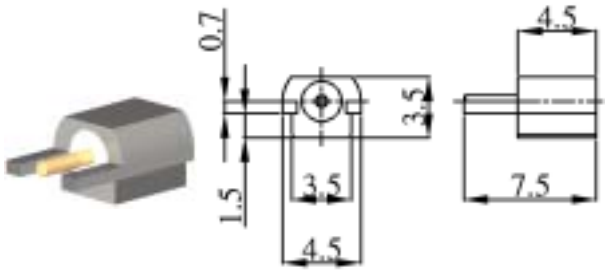
PART NUMBER	MMCX-04-TGG



PART NUMBER	MMCX-04V4-TGG

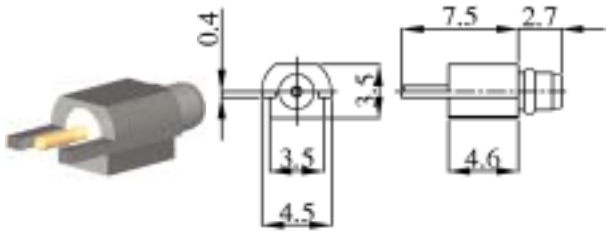
TGG : TEFLON INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY

MMCX JACK PCB END LAUNCH



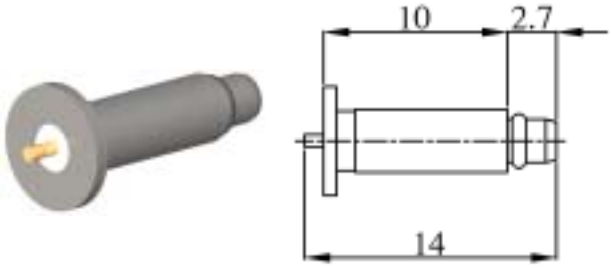
PART NUMBER	MMCX-05-TGG

MMCX PLUG PCB END LAUNCH



PART NUMBER	MMCX-10-TGG

MMCX PLUG SOLDER



PART NUMBER	MMCX-08-TGG

TGG : TEFLON INSULATION + GOLD PLATED CONTACT + GOLD PLATED BODY