

MCX Connectors

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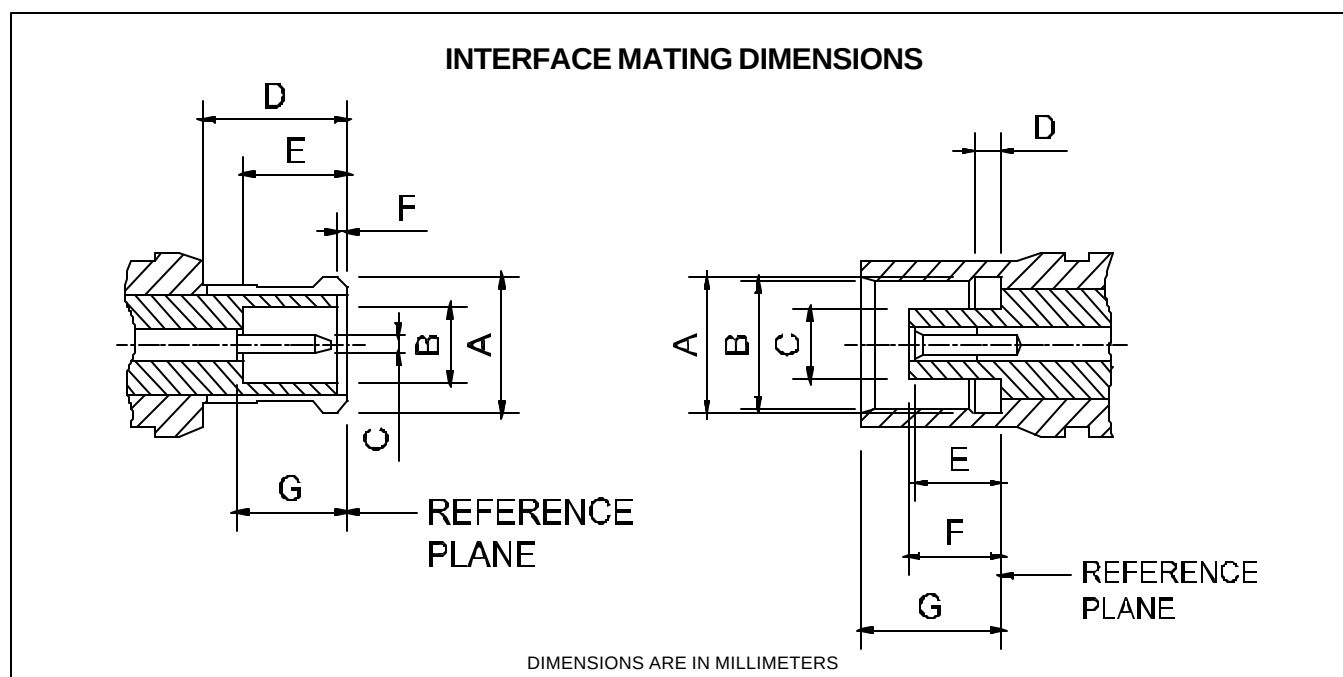
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MCX microminiature connectors are suitable for 50 ohm applications and provide repeatable performance from DC to 6 GHz. The snap-on coupling feature allows ease of assembly in dense packaging layouts. The design of the connector encompasses the need for size reduction, low weight, durability and reliable performance. MCX connectors enable a 30% space reduction over similar SMB/SMC types.

Typical applications for MCX connectors include GPS, wireless communications and automotive.



PLUG			JACK		
LETTER	MINIUMUM	MAXIMUM	LETTER	MINIMUM	MAXIMUM
A	3.66	3.76	A	3.61	3.75
B	2.00	2.07	B	3.43	3.48
C	0.48	0.53	C	1.80	1.97
D	4.16	-	D	0.75	0.85
E	2.81	3.20	E	2.31	2.79
F	0.00	0.30	F	2.61	2.79
G	2.81	3.20	G	4.00	4.12

MCX Connectors

Specifications

ELECTRICAL RATINGS

Impedance	50 ohm	
Frequency Range	0-6 GHz	
VSWR	Straight	Right Angle
	1.3 max @ 6 GHz	1.5 max @ 6 GHz
Voltage Rating (maximum)	RG-174, 188, 316 RG-178, 196	335 VRMS sea level max 250 VRMS sea level max
Dielectric Withstanding Voltage	RG-174, 188, 316 RG-178, 196	1000 VRMS min 750 VRMS min
Contact Resistance	Center Contact	Outer Contact
	5.0 milliohms max	1.0 milliohms max
Insertion Loss	.1 dB max @ 1.0 GHz	

MECHANICAL RATINGS

Mating	Snap-on coupling	
Durability	500 matings	
Engagement/Disengagement Force	5.6 lbs. max engagement	1.8 lbs. min disengagement
Cable Retention	RG-174, 188, 316	12.1 lbs. min
	RG-178, 196	7.3 lbs. min

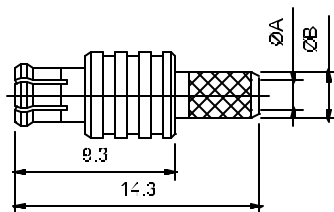
ENVIRONMENTAL RATINGS

Temperature Range	-65°C to + 165°C
Vibration	MIL-STD-202, Method 204, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Temperature Cycling	MIL-STD-1344, Method 1003, Condition A

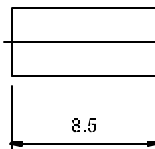
MATERIALS

		Material	Plating
Connector Body		Brass per QQ-B-626	Gold/Nickel
Center Contact	Male	Brass per QQ-B-626	Gold
	Female	Beryllium Copper per QQ-C-530	Gold
Insulation		Teflon	None
Gasket		Silicone Rubber	None
Crimp Ferrule		Annealed Copper per WW-T-799	Same as body

Straight Crimp Type Plug

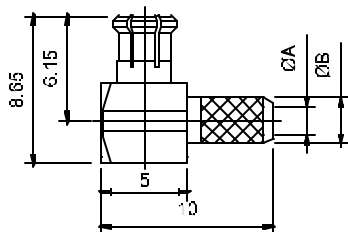


	CABLE TYPE RG-/U	DIMENSION	
		A	B
Gold Plated LTI-MXSM11GT	174, 188, 316	1.7	2.7
Nickel Plated LTI-MXSM11NT	178, 196	1.0	2.15

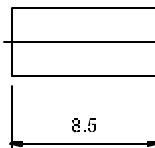


TO CREATE PART NUMBER:
Take first part of number, add a dash, then the RG number, i.e., LTI-MXSM11GT-316.
ASSEMBLY INST.: Page 108
RSD: Page 105, Table 1, Line 3

Right Angle Crimp Type Plug

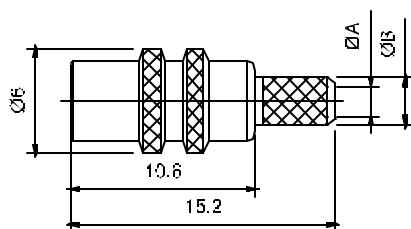


	CABLE TYPE RG-/U	DIMENSION	
		A	B
Gold Plated LTI-MXLM11GT	174, 188, 316	1.7	2.7
Nickel Plated LTI-MXLM11NT	178, 196	1.0	2.15

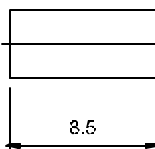


TO CREATE PART NUMBER:
Take first part of number, add a dash, then the RG number, i.e., LTI-MXSM11GT-316.
ASSEMBLY INST.: Page 109
RSD: Page 105, Table 1, Line 4

Straight Crimp Type Jack

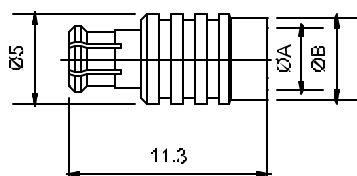


	CABLE TYPE RG-/U	DIMENSION	
		A	B
Gold Plated LTI-MXSF11GT	174, 188, 316	1.7	2.7
Nickel Plated LTI-MXF11NT	178, 196	1.0	2.15



TO CREATE PART NUMBER:
Take first part of number, add a dash, then the RG number, i.e., LTI-MXSM11GT-316.
ASSEMBLY INST.: Page 108
RSD: Page 105, Table 1, Line 5

Straight Plug for Semi-Rigid Cable



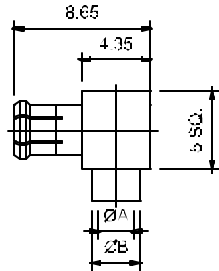
	CABLE TYPE	DIMENSION	
		A	B
Gold Plated LTI-MXSM31GT	.086" Semi-Rigid	2.2	3.0
Nickel Plated LTI-MXSM31NT	.141" Semi-Rigid	3.6	4.6

TO CREATE PART NUMBER:
Take first part of number, add a dash, then the semi-rigid cable type, i.e., LTI-MXSM31GT-.086.
ASSEMBLY INST.: Page 112
RSD: Page 107, Table 2, Line 1

MCX Connectors

Semi-Rigid Cable/PCB Mount

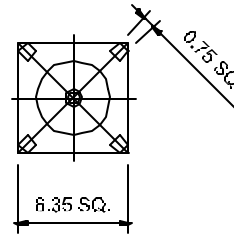
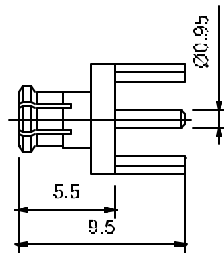
Right Angle Plug for Semi-Rigid Cable



	CABLE TYPE	DIMENSION	
		A	B
Gold Plated LTI-MXLM31GT	.086" Semi-Rigid	2.2	3.0
Nickel Plated LTI-MXLM31NT	.141" Semi-Rigid	3.6	4.6

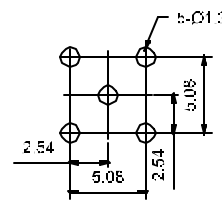
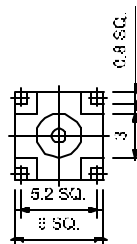
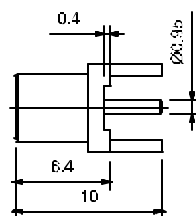
ASSEMBLY INST.: Page 113
RSD: Page 107, Table 2, Line 2

Straight PCB Mount Plug



Gold Plated	LTI-MXSM54GT
Nickel Plated	LTI-MXSM54NT

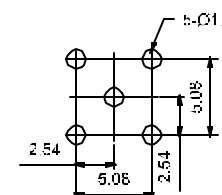
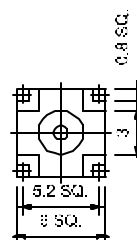
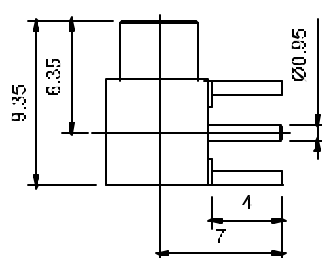
Straight PCB Mount Jack



RECOMMENDED PCB
HOLE LAYOUT

Gold Plated	LTI-MXSF54GT
Nickel Plated	LTI-MXSF54NT

Right Angle PCB Mount Jack

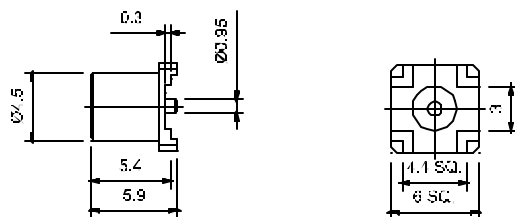


RECOMMENDED PCB
HOLE LAYOUT

Gold Plated	LTI-MXLF54GT
Nickel Plated	LTI-MXLF54NT

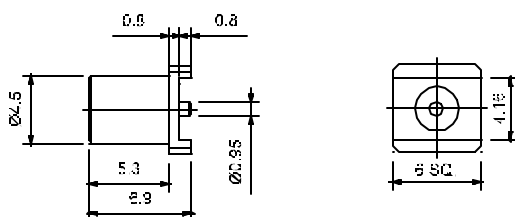
Straight Surface Mount Jack

Gold Plated	LTI-MXSF66GT
Nickel Plated	LTI-MXSF66NT



Straight Surface Mount Jack, Long Version

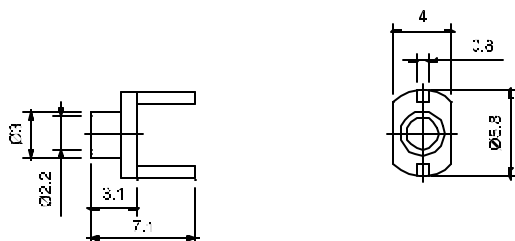
Gold Plated	LTI-MXSF66LGT
Nickel Plated	LTI-MXSF66LNT



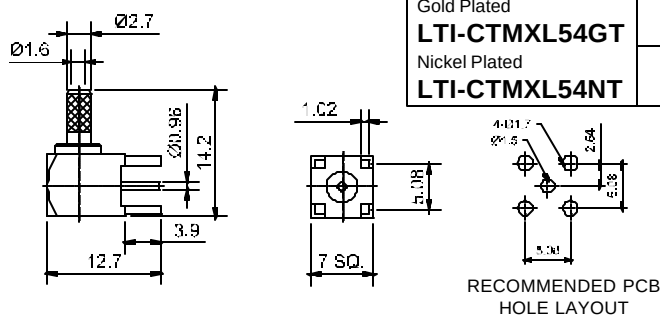
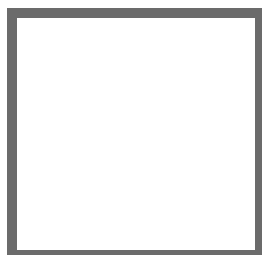
PCB Mount Semi-Rigid Cable Termination

Gold Plated	LTI-CTMXS54GT-.086
Nickel Plated	LTI-CTMXS54NT-.086

RSD: Page 107, Table 2, Line 3



PCB Mount Semi-Rigid Cable Termination



TO CREATE PART NUMBER:
Take first part of number, add a dash, then the RG number, i.e.,
LTI-MXSM11GT-316.