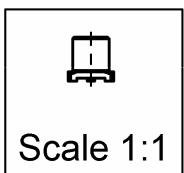
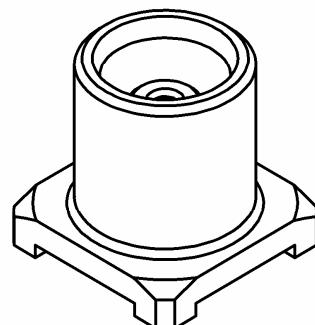
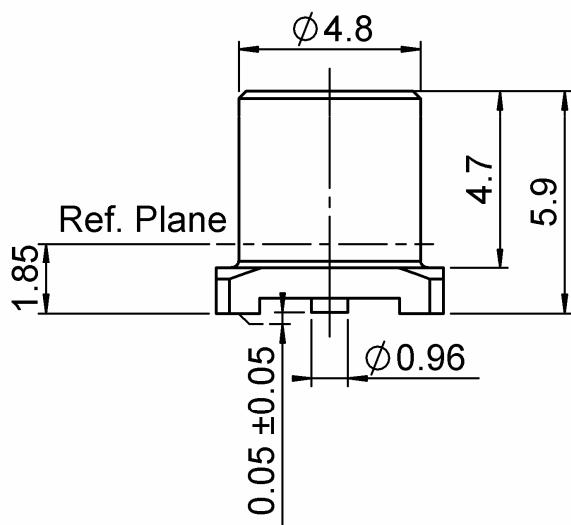
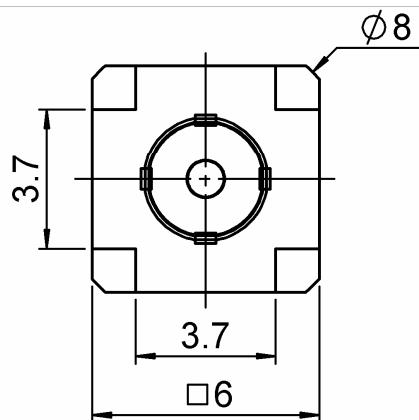


STRAIGHT JACK RECEPTACLE FOR PCB

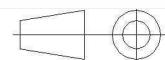
R113.424.097

NON MAGNETIC SMT TYPE

Series : MCX



All dimensions are in mm.



COMPONENTS	MATERIALS	PLATING (μm)
BODY	NON MAGNETIC BRONZE	GBR
CENTER CONTACT	BERYLLIUM COPPER	GOLD OVER COPPER
OUTER CONTACT		
INSULATOR	PTFE	
GASKET		
OTHERS PARTS		
-	-	-
-	-	-

Issue : 1145 A

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

RADIALL

STRAIGHT JACK RECEPTACLE FOR PCB

NON MAGNETIC SMT TYPE

R113.424.097

Series : MCX

PACKAGING

Standard	Unit	Other
100	'W' option	Contact us

SPECIFICATIONELECTRICAL CHARACTERISTICS

Impedance	50 Ω
Frequency	0-6 GHz
VSWR	**1.05 + 0,0300 x F(GHz) Maxi
Insertion loss	*0.05 $\sqrt{F(\text{GHz})}$ dB Maxi
RF leakage	- (NA - F(GHz)) dB Maxi
Voltage rating	335 Veff Maxi
Dielectric withstanding voltage	1000 Veff mini
Insulation resistance	1000 M Ω mini

ENVIRONMENTAL

Operating temperature	-55/+125 °C
Hermetic seal	NA Atm.cm ³ /s
Panel leakage	NA

MECHANICAL CHARACTERISTICS

Center contact retention	
Axial force – Mating end	10 N mini
Axial force – Opposite end	10 N mini
Torque	NA N.cm mini

Recommended torque	
Mating	NA N.cm
Panel nut	NA N.cm

Mating life	500 Cycles mini
Weight	0,6140 g

OTHER CHARACTERISTICSAssembly instruction **NA**

Others :

* Coaxial Transmission Line Only

** Performance strongly

depends on lay out and pcb material

Distortion of the magnetic field :

<= 0.5 ppm@ 10 mm @ Bo = 1.5 Tesla

Issue : 1145 A

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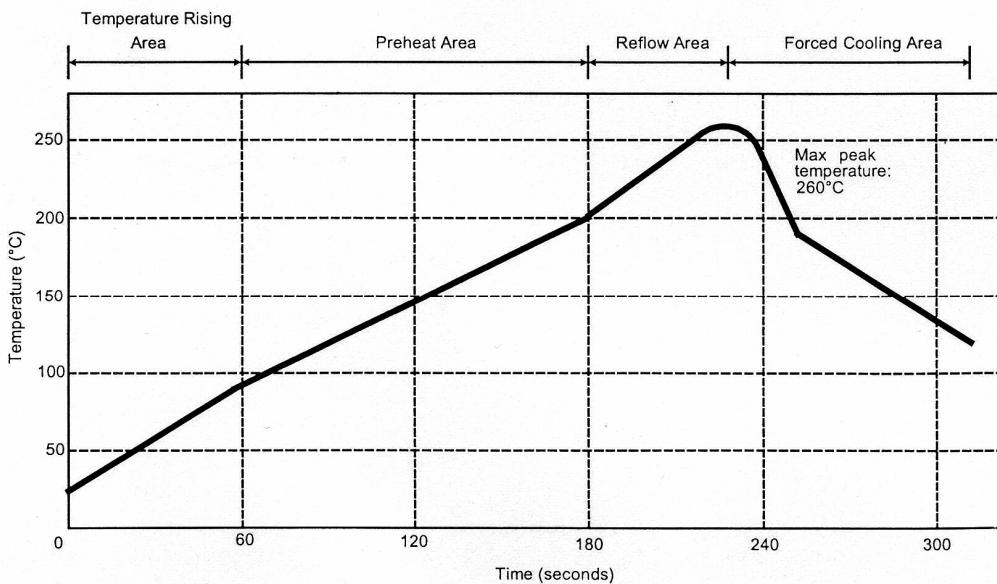
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STRAIGHT JACK RECEPTACLE FOR PCB**NON MAGNETIC SMT TYPE****R113.424.097**

Series : MCX

SOLDER PROCEDURE

1. Deposit solder paste 'Sn Ag4 Cu0.5' on mounting zone by screen printing application. We recommend a low residue flux. We advise a thickness of 150 microns mini. (.006 inch mini). Verify that the edges of the zone are clean.
2. Placement of the receptacle on the mounting zone with an automatic machine of 'pick and place' type. Aspiration port (see page 4) centered into body and push against it. A video camera is recommended for positioning of the component . Adhesive agents must not be used on the receptacle.
3. Soldering by infra-red reflow. Below please find ,the typical profile to use.
4. Cleaning of printed circuit boards.
5. Verification of solder joints and position of the component by visual inspection.

TEMPERATURE PROFILE

Parameter	Value	Unit
Temperature rising Area	1 - 4	°C/sec
Max Peak Temperature	260	°C
Max dwell time @260°C	10	sec
Min dwell time @235°C	20	sec
Max dwell time @235°C	60	sec
Temperature drop in cooling Area	-1 to - 4	°C/sec
Max dwell time above 100°C	420	sec

Issue : 1145 A

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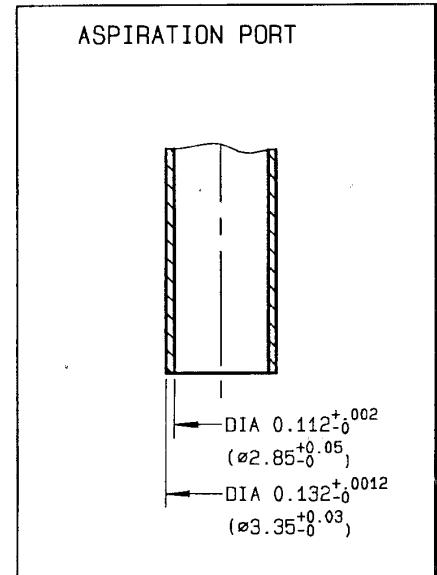
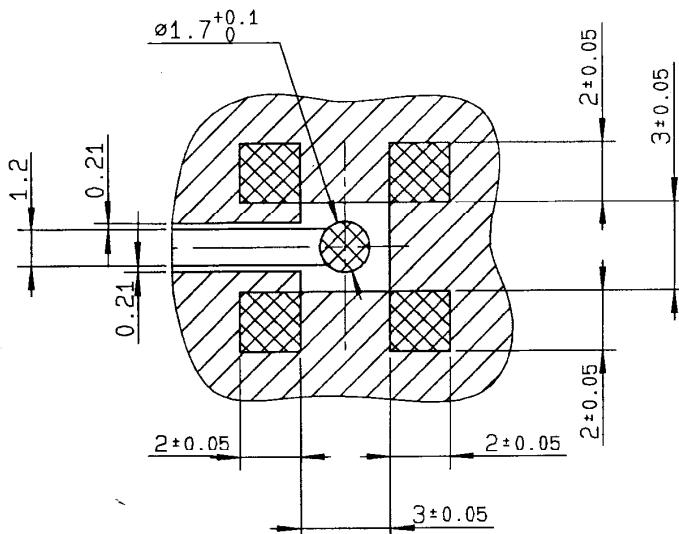
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STRAIGHT JACK RECEPTACLE FOR PCB

R113.424.097

NON MAGNETIC SMT TYPE

Series : MCX



COPLANAR LINE

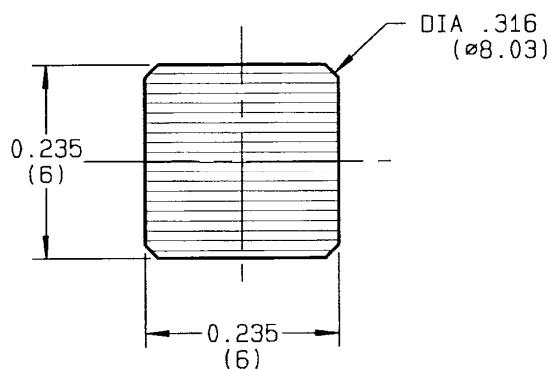
Pattern and signal are on the same side
 Thickness of PCB : .063 (1.6 mm)
 The material of PCB is the epoxy resin
 of glass fabrics bacs. ($\epsilon_r = 4.8$)
 The solder resist should be printed
 except for the land pattern on the PCB.



Pattern



Land for solder paste

SHADOW OF MCX RECEPTACLE
FOR VIDEO CAMERA

Issue : 1145 A

In the effort to improve our products, we reserve the right to make changes judged to be
 necessary.

Mouser Electronics

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