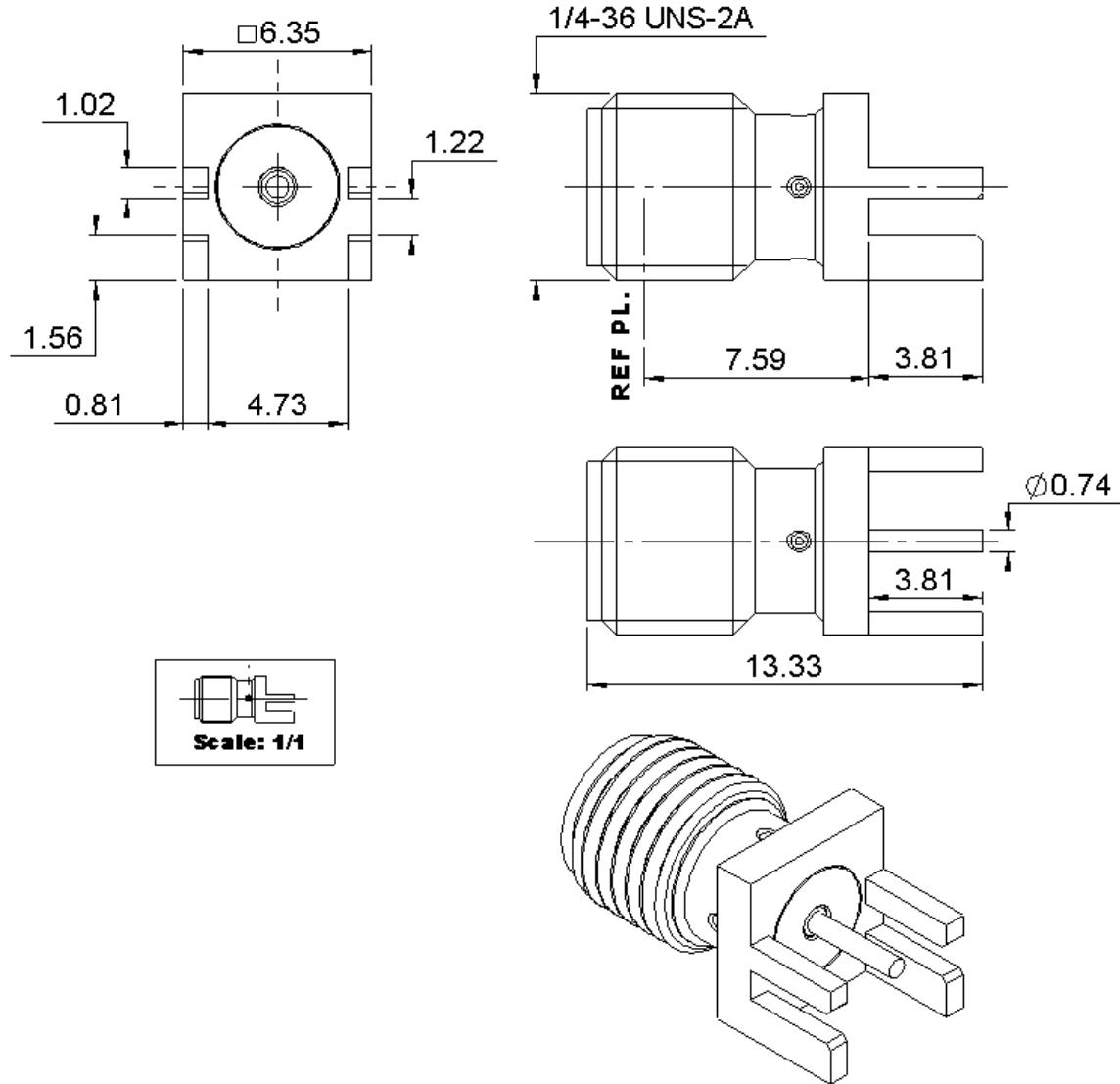


FEMALE STRAIGHT RECEPTACLE FOR PCB

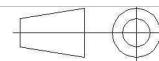
SMT TYPE - EDGE CARD.

R125.423.200

Series : SMA



All dimensions are in mm.



COMPONENTS	MATERIALS	PLATING (μm)
BODY	STAINLESS STEEL	GOLD 0.5 OVER NICKEL 2
CENTER CONTACT	BERYLLIUM COPPER	GOLD 1.3 OVER NICKEL 2
OUTER CONTACT	-	-
INSULATOR	PTFE	-
GASKET	-	-
OTHERS PARTS	-	-
-	-	-
-	-	-

Issue : 1020 B

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

RADIALL

FEMALE STRAIGHT RECEPTACLE FOR PCB
SMT TYPE - EDGE CARD.

R125.423.200

Series : SMA

PACKAGING

Standard	Unit	Other
100	'W' option	Contact us

SPECIFICATION

ELECTRICAL CHARACTERISTICS

Impedance	50 Ω
Frequency	0-18 GHz
VSWR	1.14 + 0,0000 x F(GHz) Maxi
Insertion loss	0.05 $\sqrt{F(\text{GHz})}$ dB Maxi
RF leakage	- (- F(GHz)) dB Maxi
Voltage rating	500 Veff Maxi
Dielectric withstanding voltage	1000 Veff mini
Insulation resistance	5000 M Ω mini

ENVIRONMENTAL

Operating temperature	-65/+165 °C
Hermetic seal	NA Atm.cm3/s
Panel leakage	NA

OTHER CHARACTERISTICS

Assembly instruction

Others :

MECHANICAL CHARACTERISTICS

Center contact retention	
Axial force – Mating end	27 N mini
Axial force – Opposite end	27 N mini
Torque	2.8 N.cm mini

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

Mating life	500 Cycles mini
Weight	1,3000 g

Issue : 1020 B

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

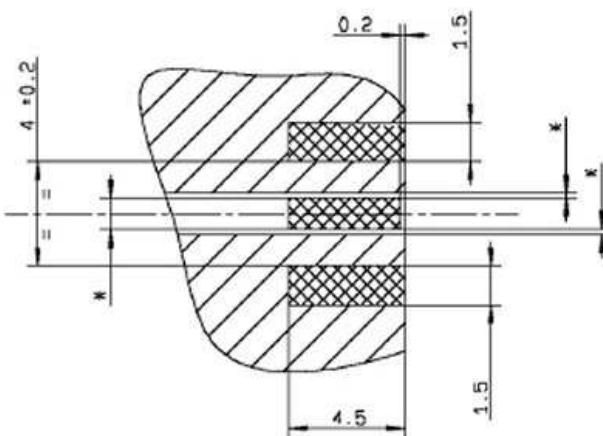
RADIALL 

FEMALE STRAIGHT RECEPTACLE FOR PCB

SMT TYPE - EDGE CARD.

R125.423.200

Series : SMA



COPLANAR LINE

Pattern and signal are on the same side.
 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

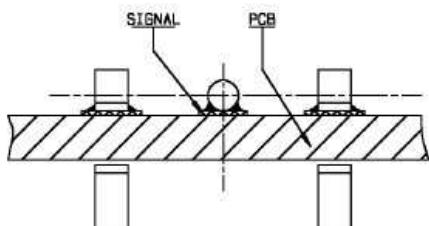
*Parameters flagged by a star must be defined dimensionally regarding the thickness of the PCB and the transmission way these parameters could be measured by RADIALL if request.

1

This type of connector is adapted to one specific PCB thickness. It can be used with different ways of transmission.

COPLANAR LINE

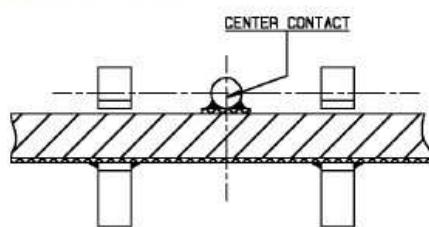
Signal and ground are coplanar.



2

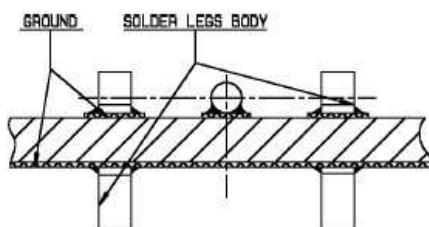
MICROSTRIP LINE

Signal and ground are opposite.



3

Coplanar and opposite grounds.



Solution (3) features a stronger mechanical retention on the PCB because the 4 leads are soldered.

Issue : 1020 B

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

Mouser Electronics

Authorized Distributor

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