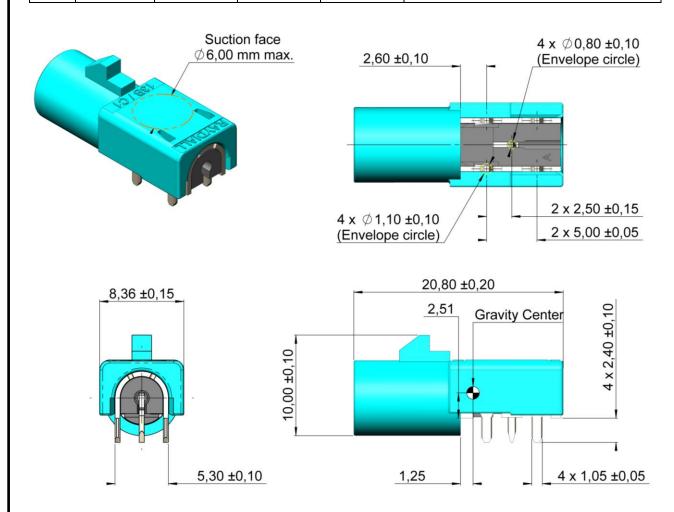
Process: Reflow



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TECHNICAL DATA SHEET

Rev	Date	Edited	Approved	Validated	Modification
1	06/09/2018	T. Mbuyi	Y.Gay	R.Chantre	Creation



All dimensions are in mm

Components	Materials	Plating	
Body	Brass	Matt Tin 3 over Nickel 2	
Center contact	Brass	Selective gold 0.15 over Nickel 2	
Insulator	Polyamid GF30	Natural color	
Housing	High temperature polymer GF30	See Codings	

Process: Reflow



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TECHNICAL DATA SHEET

Interface According to ISO 20860-1

Application This terminal has been qualified according USCAR-17 Rev.4 (March 2013) and

USCAR-2 Rev.5 (November 2007).

Electrical characteristics

 $\begin{array}{ll} \text{Impedance} & 50 \ \Omega \\ \text{Frequency} & 0\text{-3 GHz} \end{array}$

VSWR ≤1.4 (45MHz to 2GHz)

≤1.5 (2GHz to 3GHz)

 $\begin{array}{ll} \mbox{Voltage rating} & 335 \mbox{ Veff Maxi} \\ \mbox{Dielectric withstanding Voltage} & 1000 \mbox{ Veff maxi} \\ \mbox{Insulation resistance} & 1000 \mbox{ M}\Omega \end{array}$

Mechanical characteristics

Center contact retention, axial force, mating end \geq 10 N Center contact retention, axial force, opposite end \geq 10 N Housing retention \geq 110 N Mating cycles \geq 25

Environmental

Operating temperature

-40 / +105°C

RoHS compliant

Component weight 1,79 g

Codings To obtain the complete part number, please fill in the blanck " " with the coding letter



A Black 9005



B Crème White 9001



C Blue 5005



D Bordeaux 4004



E Green 6002



F Brown 8011



G Grey 7031



H Violet 4003



l Beige 1001



K Curry 1027



L Carmin 3002



M Pastel Orange 2003



N Pastel Green 6019



Z Water blue 5021

Process: Reflow



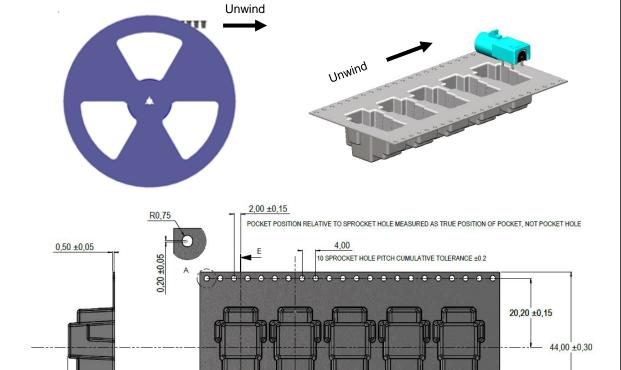
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TECHNICAL DATA SHEET

Packaging 4 plastic reels inside 1 cardboard box

Primary packaging: plastic reel

- Dimensions: Ø 380 x 48mm
- Number of connectors per reel: 450
- Carrier tape description:
 - o 44mm width, 16mm pitch.
 - o Material: thermoplastic static dissipative. Cover tape material: Thermoplastic antistatic



+0,10 Ø1,50 0,00

16,00

Secondary packaging: Cardboard box

13,60 ±0,20

COUPE E-E

- Outside dimensions: 400 x 400 x 200 mm
- Number of reels per cardboard box: 4
- Number of connectors per cardboard box: 1800
- Weight: 7,4 kg



1,75 ±0,10

Process: Reflow



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TECHNICAL DATA SHEET

Storage

The product must be used as soon as it is removed from the cells.

Do not leave the product in the open air.

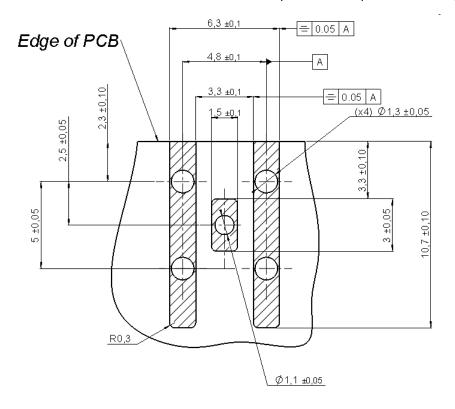
Reels should be stored indoors, in his original unopened packaging, in a controlled climate environment not exceeding -20°C / +40°C and 60% Max. relative humidity.

Reels should be protected from direct sunlight and should be used on a "first-in, first-out" basis.

It is recommended that connector be used within 1 year from the date of manufacture when stored according to the recommended storage condition.

PCB Cut out

- PCB Thickness: 1,6 mm.
- PCB recommended material: FR4 (£r = 4.6).
- 5 metalized holes.
- Solder paste has to be printed onto the land of solder and into holes to permit Pin In Hole Reflow.
- This layout is a recommendation for solderability.
- Design and performances of the PCB will depend on customers choices and RAYDIALL cannot be considered
 as responsible in case of bad performances.
- A numerical simulation of the PCB is recommended to optimize the RF performance in high frequency.



Process: Reflow



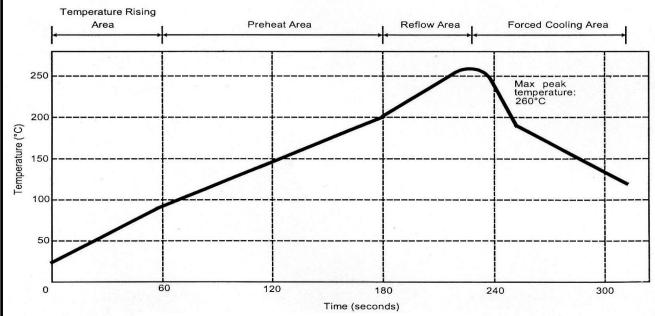
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TECHNICAL DATA SHEET

Solder procedure

- 1. Deposit solder paste "Sn95.5Ag3.8Cu0.7" on mounting zone by screen printing application.
 - We recommend a low Residue Solid Flux.
 - We advise a thickness of 0,2 millimeters min. (0,008 inch min.).
 - The holes must be totally filled with cream Verify that the edges of the zone are clean.
- Placement of the receptacle on the mounting zone with an automatic machine of "pick and place" type.
 Video camera is preferred to check the positioning of the component.
 Adhesive agents are forbidden on the receptacle.
- 3. Soldering (typical profile to use is given below).
- 4. Clean printed circuit boards.
- 5. Checking of solder joints and component position 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

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