

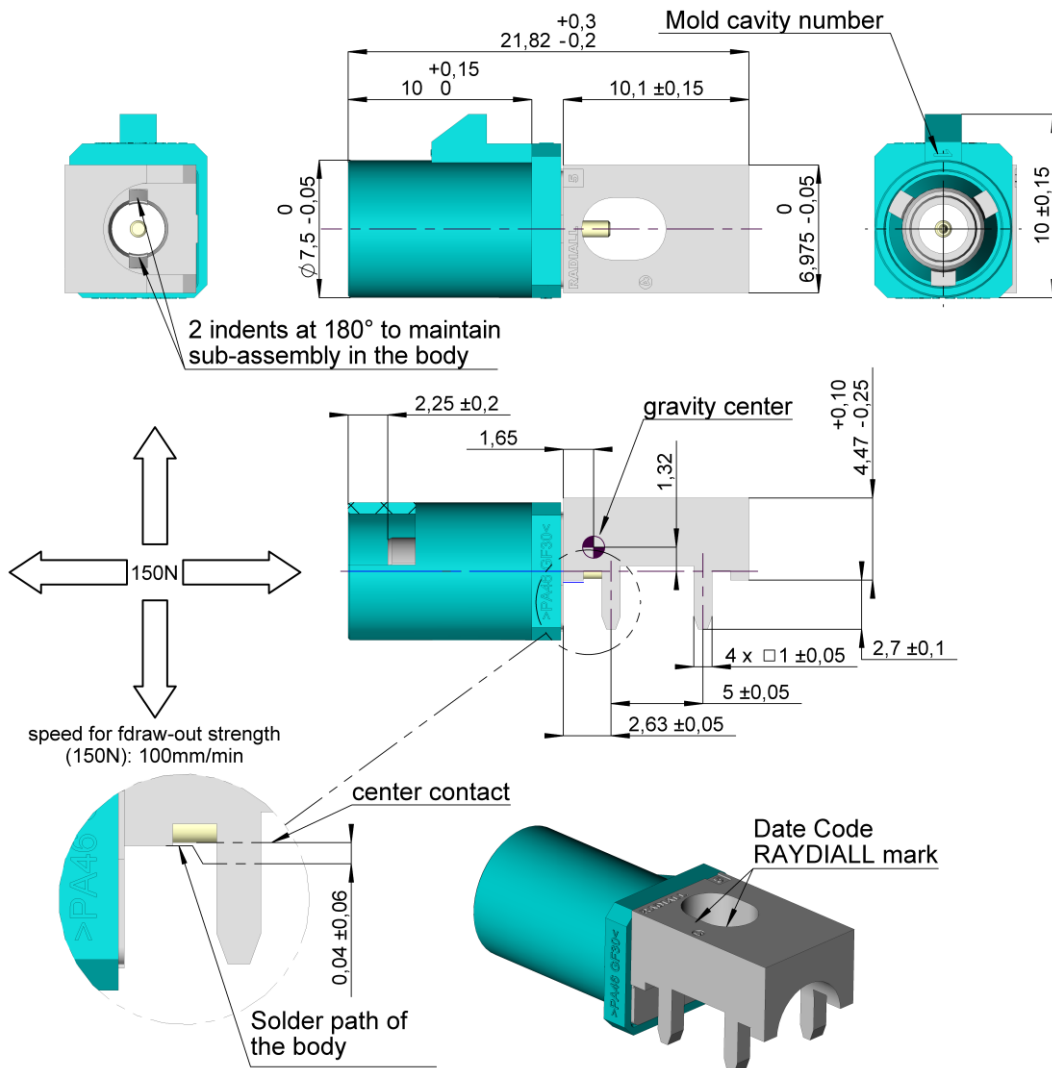
STRAIGHT PCB RECEPTACLE EDGE CARD – PIN IN PASTE VERSION



R197.160._12

TECHNICAL DATA SHEET

| Rev | Date | Edited | Approved | Validated | Modification |
|-----|------------|----------|----------|-----------|--------------|
| 1 | 09/07/2020 | L.Gering | Y.Gay | R.Chantre | Creation |
| | | | | | |



| Components | Materials | Plating |
|--------------------------|----------------------|--------------------------|
| Body | Zinc Alloy | Tin for high temperature |
| Center contact | Brass | Gold over Nickel |
| Insulator | PTFE | Natural color |
| All dimensions are in mm | Polymer PA 4.6 GF30* | See Codings |

*Material classification flammability UL94: HB

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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

| | |
|---------------------------------|---------------------------|
| Impedance | 50 Ω |
| Frequency | 0-4 GHz |
| VSWR | 1.6* + 0.013 xF(GHz) Maxi |
| Voltage rating | 335 Veff Maxi |
| Dielectric withstanding Voltage | 1000 Veff maxi |
| Insulation resistance | 1000 MΩ |

*Coax transmission line only

Mechanical characteristics

| | |
|-----------------------------------------------------|--------|
| Center contact retention, axial force, mating end | ≥10 N |
| Center contact retention, axial force, opposite end | ≥10 N |
| Housing retention | ≥110 N |
| Mating cycles | ≥ 50 |

Environmental

Operating temperature -40 / +110°C
RoHS compliant

Component weight 2.12 g

Codings To obtain the complete part number, please fill in the blank “_” with the coding letter



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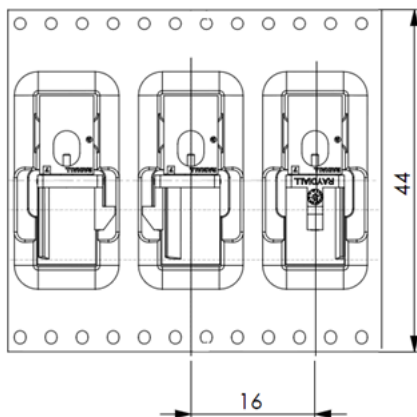
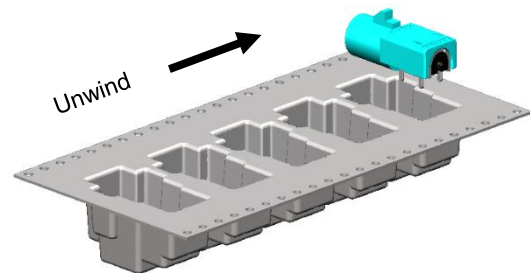
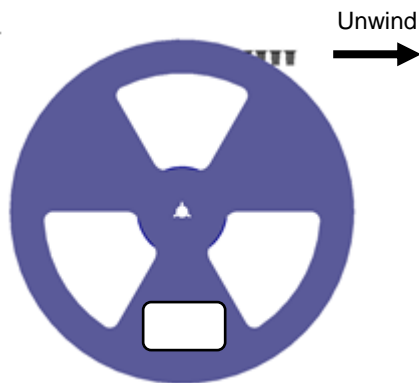
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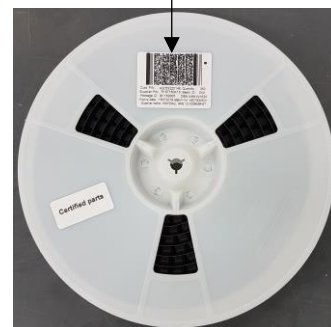
Packaging 2 plastic reels inside 1 cardboard box

Primary packaging: plastic reel

- Dimensions : Ø 330 x 48mm
- Number of connectors per reel: 350
- Carrier tape description:
 - 44mm width, 16mm pitch.
 - Material: thermoplastic static dissipative. Cover tape material: Thermoplastic antistatic



Label for identification



Secondary packaging: Cardboard box

- Outside dimensions: 380x380x130 mm
- Number of reels per cardboard box: 2
- Number of connectors per cardboard box: 700
- Weight: 2.3 kg



Third Packaging: Pallet

- PALLET Europe 1200 x 800mm
- Height: < 1100 mm
- 42 cardbox by pallet
- 29400 receptacles by complete pallet

Label according SN55228-2 (compliant, except that 2D label does not include the shipping note number)

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Storage

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

Do not leave the product in the open air.

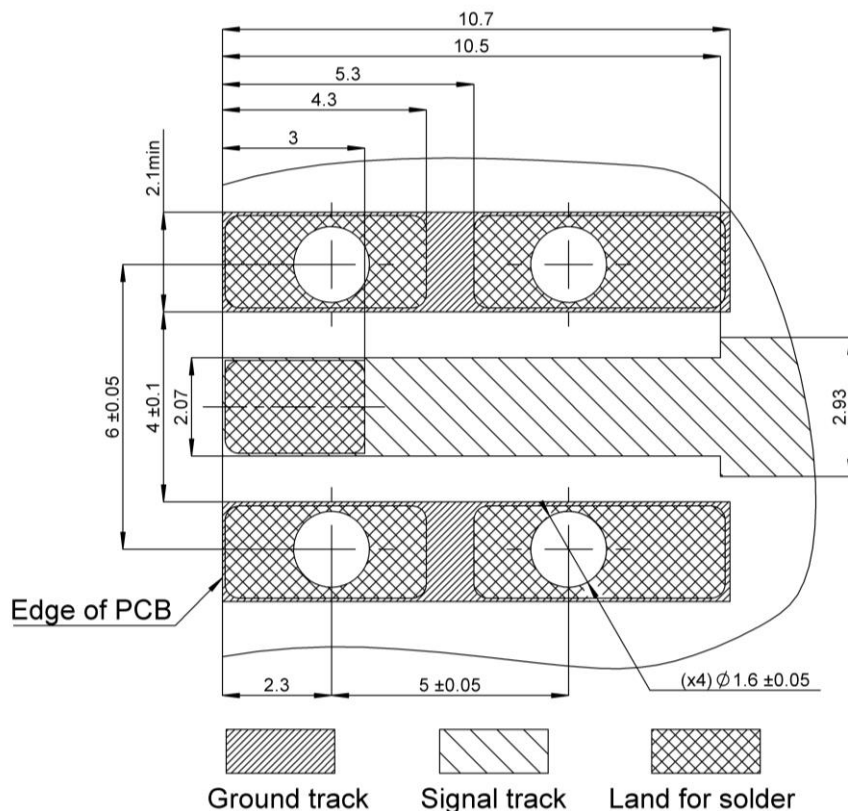
Reels should be stored indoors, in his original unopened packaging, in a controlled climate environment not exceeding -20°C / +40°C and 60% Max. relative humidity.

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 ($\epsilon_r = 4.6$).
- 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.



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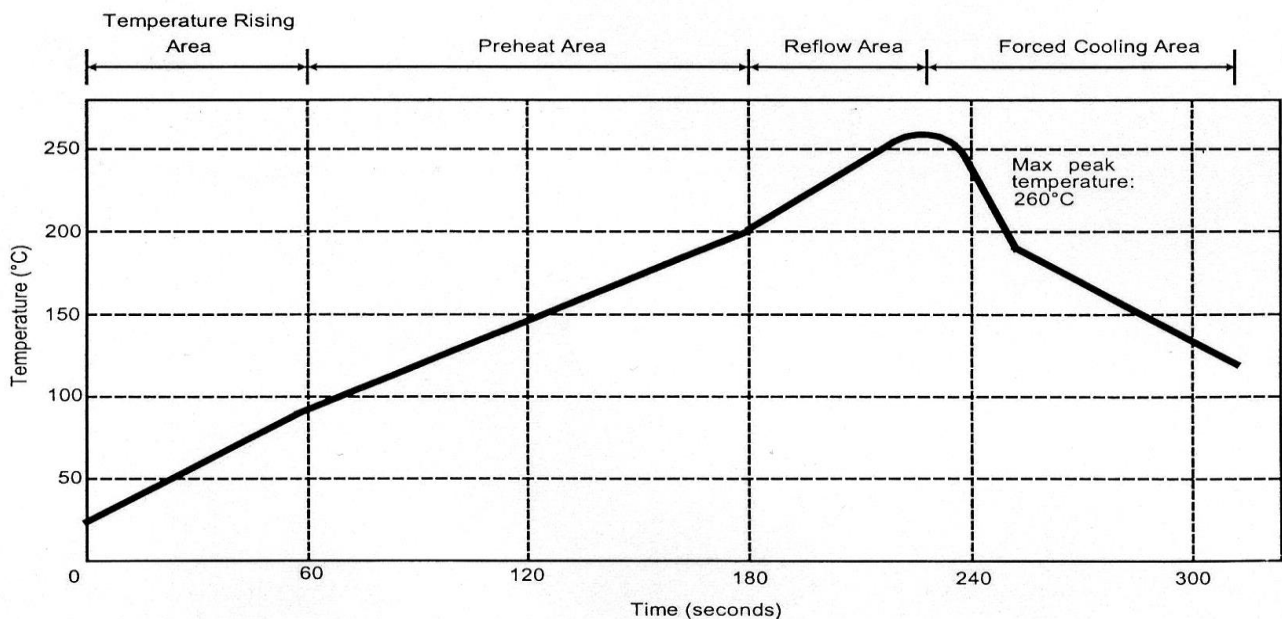
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Solder procedure

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.
2. 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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