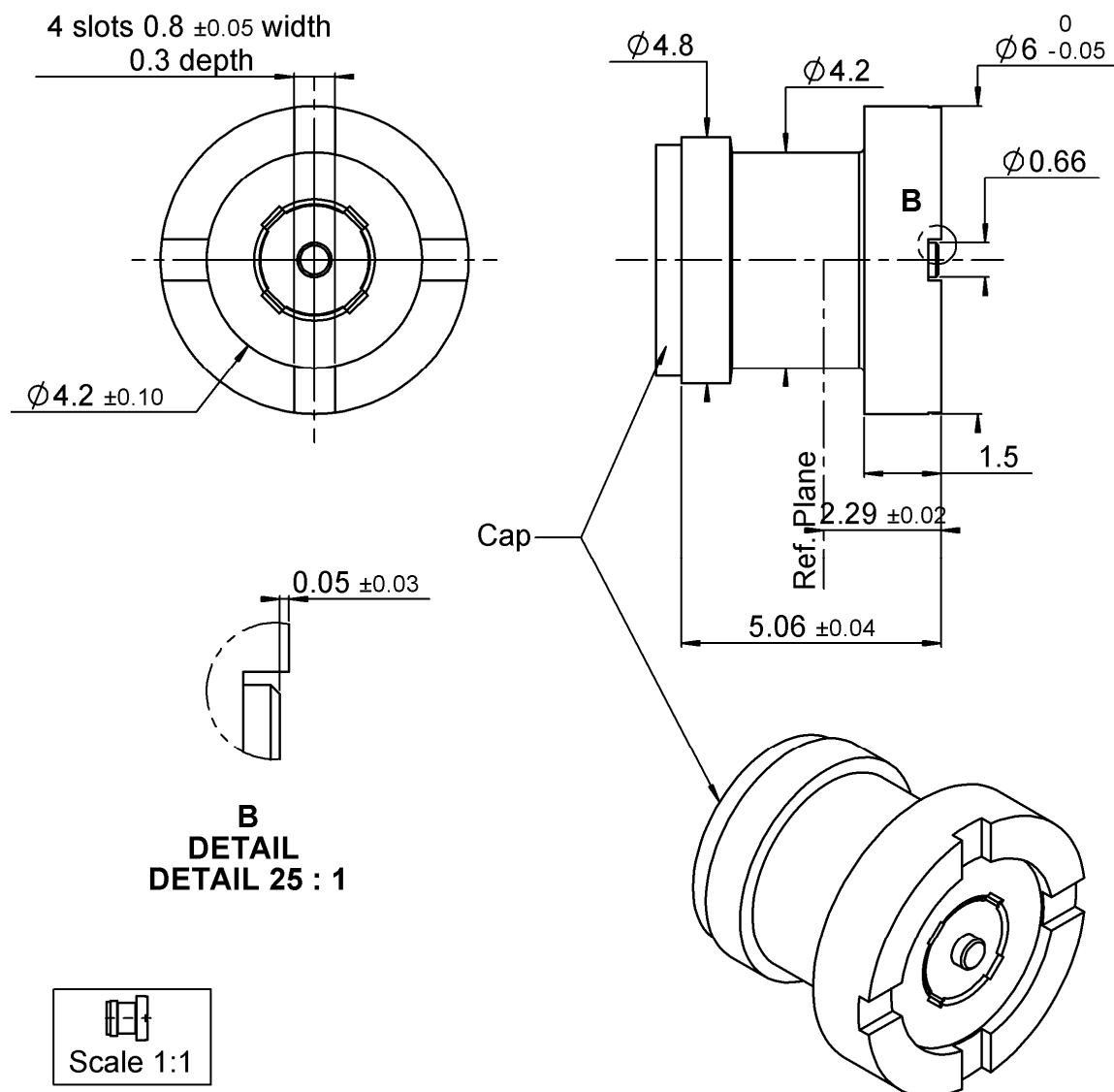


## MALE STRAIGHT RECEPTACLE FOR PCB

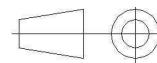
LIMITED DETENT REEL 100

**R222.L00.010**

Series : SMP LOCK



All dimensions are in mm.



| COMPONENTS     | MATERIALS        | PLATING ( $\mu$ m) |
|----------------|------------------|--------------------|
| BODY           | BRASS            | N2PGR              |
| CENTER CONTACT | BERYLLIUM COPPER | N2PGR              |
| OUTER CONTACT  | -                | -                  |
| INSULATOR      | PTFE             | -                  |
| GASKET         | -                | -                  |
| OTHERS PARTS   | PTFE             | -                  |
| -              | -                | -                  |
| -              | -                | -                  |

Issue : 1312 A

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

**RADIAL** 

**MALE STRAIGHT RECEPTACLE FOR PCB****LIMITED DETENT REEL 100****R222.L00.010**

Series : SMP LOCK

**PACKAGING**

| Standard   | Unit     | Other             |
|------------|----------|-------------------|
| <b>100</b> | <b>W</b> | <b>Contact us</b> |

**SPECIFICATION****ELECTRICAL CHARACTERISTICS**

|                                 |                       |                                |
|---------------------------------|-----------------------|--------------------------------|
| Impedance                       | <b>50</b>             | $\Omega$                       |
| Frequency                       | <b>0-18</b>           | GHz                            |
| VSWR                            | <b>1.05* + 0,0170</b> | x F(GHz) Maxi                  |
| Insertion loss                  | <b>0.12</b>           | $\sqrt{F}(\text{GHz})$ dB Maxi |
| RF leakage                      | <b>90*</b>            | - F(GHz)) dB Maxi              |
| Voltage rating                  | <b>335</b>            | Veff Maxi                      |
| Dielectric withstanding voltage | <b>500</b>            | Veff mini                      |
| Insulation resistance           | <b>5000</b>           | M $\Omega$ mini                |

**ENVIRONMENTAL**

|                       |                 |                    |
|-----------------------|-----------------|--------------------|
| Operating temperature | <b>-65/+165</b> | $^{\circ}\text{C}$ |
| Hermetic seal         | <b>NA</b>       | Atm.cm3/s          |
| Panel leakage         | <b>NA</b>       |                    |

**OTHER CHARACTERISTICS**

Assembly instruction

Others :

\*Coaxial Transmission Line Only

**MECHANICAL CHARACTERISTICS**

|                            |                        |
|----------------------------|------------------------|
| Center contact retention   |                        |
| Axial force – Mating end   | <b>6.7</b> N mini      |
| Axial force – Opposite end | <b>6.7</b> N mini      |
| Torque                     | <b>NA</b> N.cm mini    |
| Recommended torque         |                        |
| Mating                     | <b>NA</b> N.cm         |
| Panel nut                  | <b>NA</b> N.cm         |
| Mating life                | <b>500</b> Cycles mini |
| Weight                     | <b>0,5700</b> g        |

Issue : 1312 A

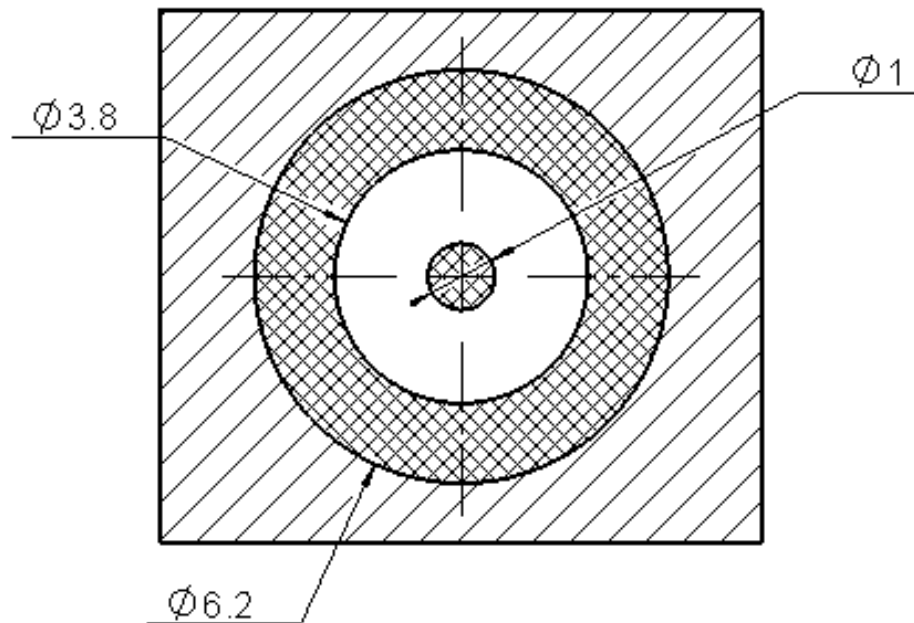
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**RADIAL**

**MALE STRAIGHT RECEPTACLE FOR PCB**  
**LIMITED DETENT REEL 100**

**R222.L00.010**

Series : SMP LOCK

**STANDARD PAD (RADIAL RECOMMENDATION)**

Land for solder past



Ground + varnish

-The landing pad for center contact should be linked to the stripline using a filled via.

-Upper and lower ground planes should be linked using vias.

**Issue : 1312      A**

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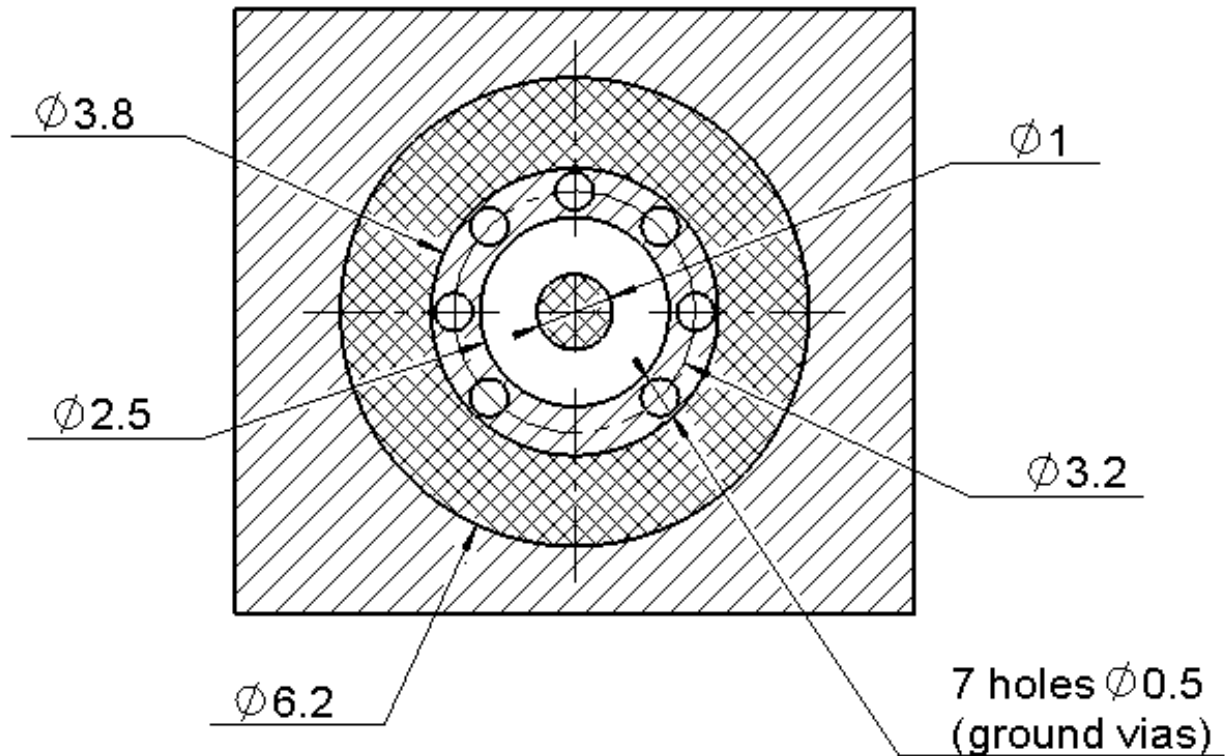
**RADIAL** 

## MALE STRAIGHT RECEPTACLE FOR PCB

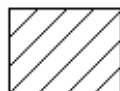
LIMITED DETENT REEL 100

**R222.L00.010**

Series : SMP LOCK

***RT DUROID 6002 (30 mils) PAD (RADIAL RECOMMANDATION)***

Land for solder past



Ground + varnish

- The landing pad for center contact should be linked to the stripline using a filled via.
- Upper and lower ground planes should be linked using vias.

Issue : 1312 A

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**RADIAL** 

## MALE STRAIGHT RECEPTACLE FOR PCB

## LIMITED DETENT REEL 100

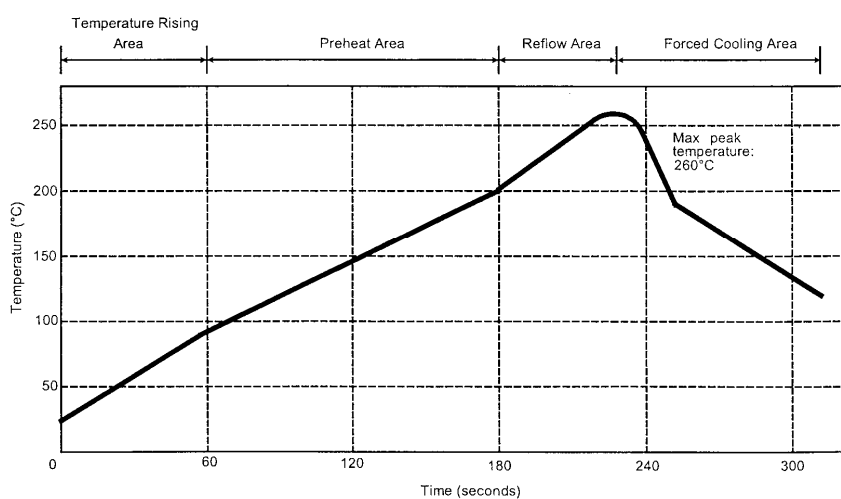
**R222.L00.010**

Series : SMP LOCK

**SOLDER PROCEDURE**

1. Deposit solder paste 'SnAg4Cu0.5' on mounting zone by screen printing application. We recommend a low residue flux.  
We advise a thickness of 150  $\mu\text{m}$  ( 5.850 microinch ). 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. A video camera is recommended for positioning of the component . Adhesive agents must not be used on the receptacle.
3. This process of soldering has been tested with convection oven .Below please find ,the typical profile to use.
4. The cleaning of printed circuit boards is not obliged .

Verification of solder joints and position of the component by visual inspection.



| 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    |

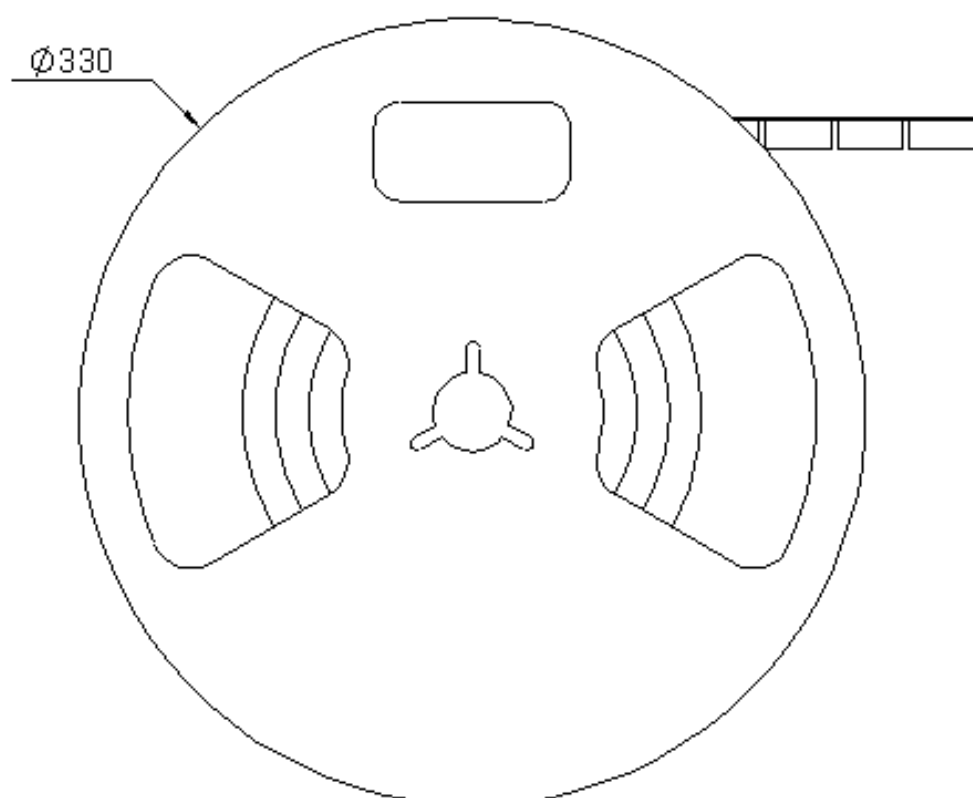
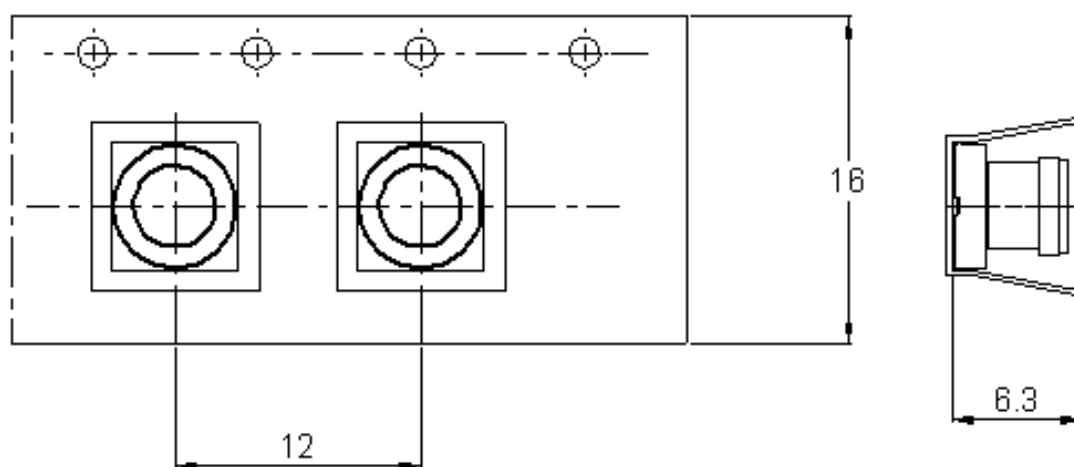
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**RADIAL** 