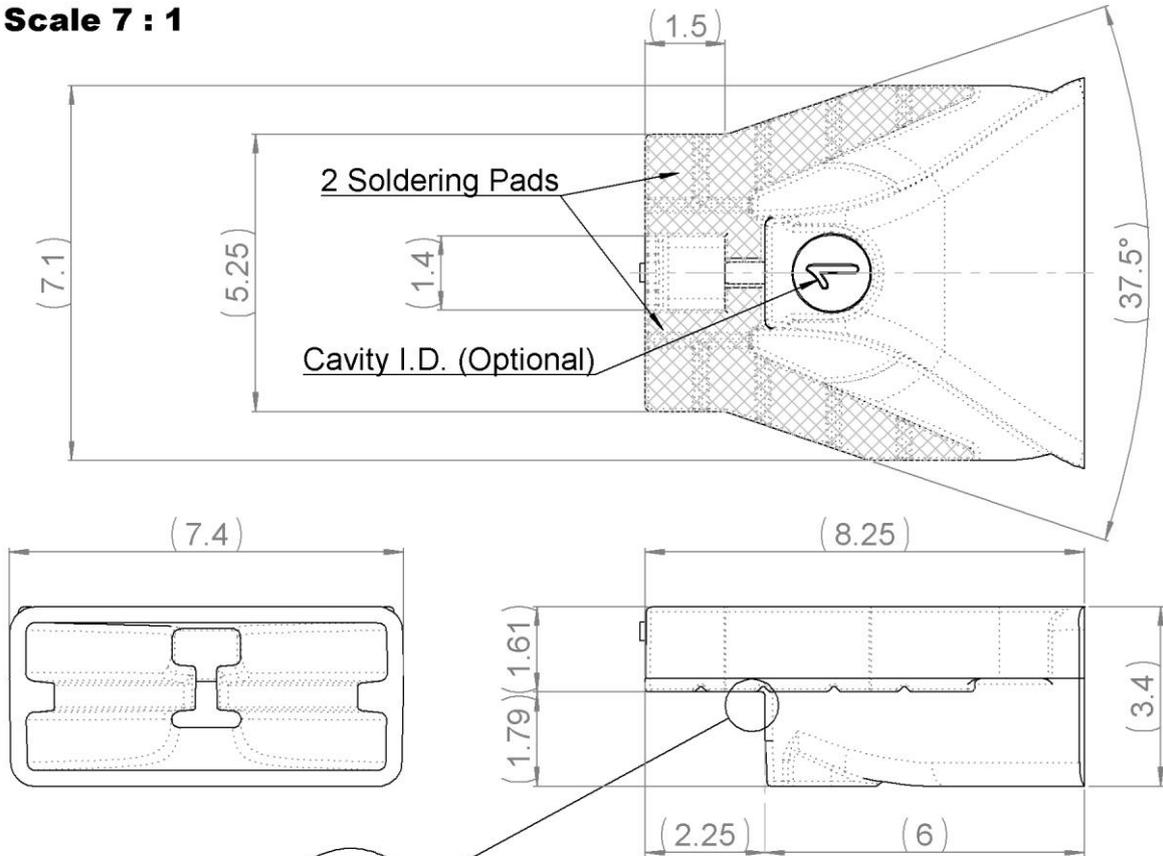
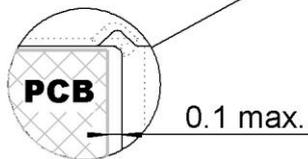


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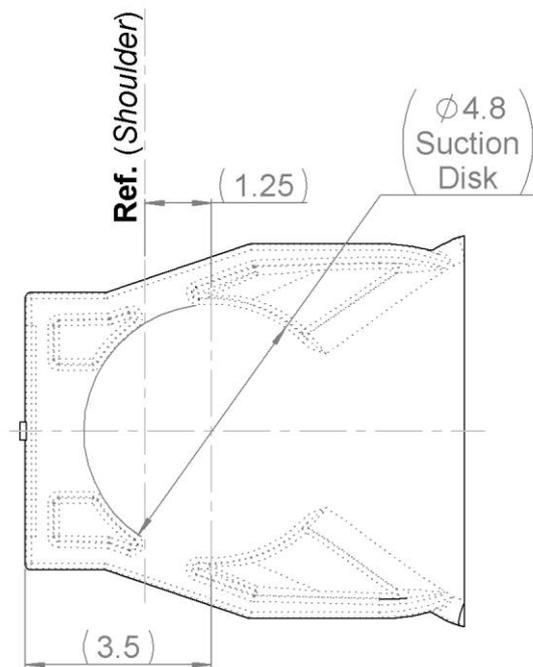
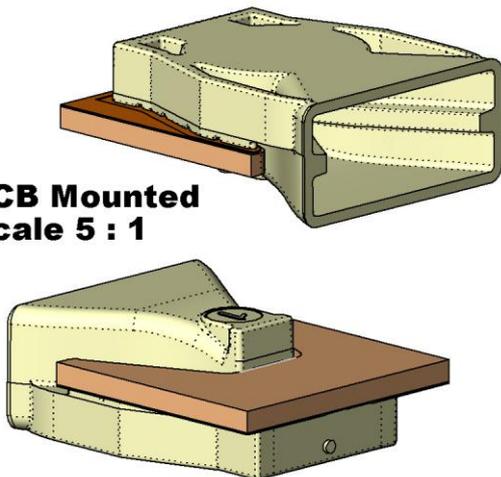
Scale 7 : 1



PCB Mounted Scale 20 : 1



PCB Mounted Scale 5 : 1



All dimensions are in mm. Tolerances according ISO 2768 m-H.

Patented design.

| COMPONENTS | MATERIALS | PLATING (μm) |
|------------|------------------------------|--------------|
| Body | LCP (Liquid Cristal Polymer) | Gold |

| | | | |
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ELECTRICAL CHARACTERISTICS

| | | |
|-----------------------------------|--------------------------|-----------|
| Frequency Band | 57 ~ 66 | GHz |
| Nominal Impedance | 50 | Ω |
| Return Loss ⁽¹⁾ | < -10 | dB (Typ.) |
| Typical Far-Field Directivity | > 8 | dBi |
| Radiation Pattern | Directional | (Horn) |
| Polarization | Linear Horizontal | |
| Relative Cross-Polarization Level | > 20 | dB |
| ESD Protection | DC-Ground | |

(1): Measured on Reference Board (See Application Note "201910575-10_ _ _ _ _ B_AN.pdf").

(2): Tape & Reel Packaging Conditions

MECHANICAL CHARACTERISTICS

| | | |
|--------------------|-------------------------|--------|
| Weight | 0.11 | g ±15% |
| Overall Dimensions | 8.25 × 7.4 × 3.4 | mm |
| Mounting Type | Edge-Card SMT | |

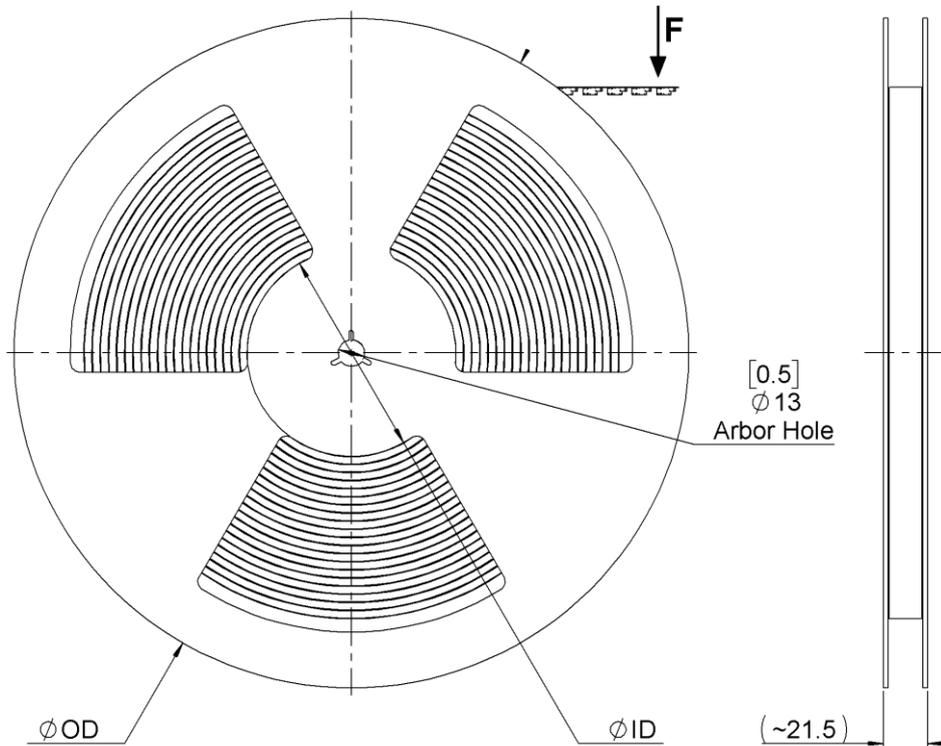
ENVIRONMENTAL CHARACTERISTICS

| | | |
|--|-----------------------------|---------|
| Extreme Storage Temperature ⁽²⁾ | -20 / +55 | °C |
| Recommended Storage ⁽²⁾ | 25 ± 15 | °C |
| (12 Months Shelf Life) ⁽²⁾ | 30 ~ 60 | %RH |
| Reflow Temperature | 260 | °C Max. |
| Operating Temperature Range | -40 / +85 | °C |
| ROHS & REACH status | See radiall.com/rohs | |

PACKAGING SUFFIX

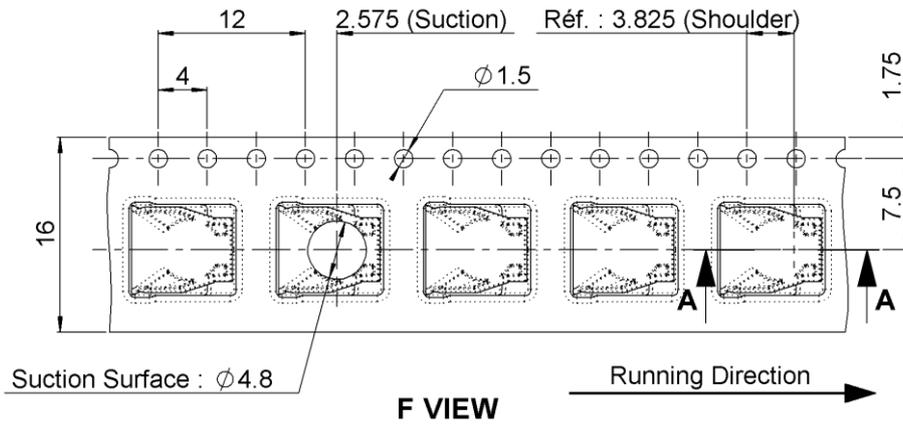
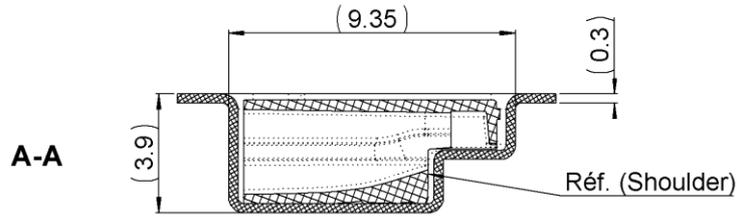
| P/N Suffix | Packaging Type | OD | ID | Order Quantity |
|---|-------------------|------------|-------------|----------------|
| 20 | Large Reel | 15" | 4" | 2000 |
| 01 | Small Reel | 7" | 2.4" | 100 |
| <i>Other Packaging Available Upon Request</i> | | | | |

PACKAGING REEL

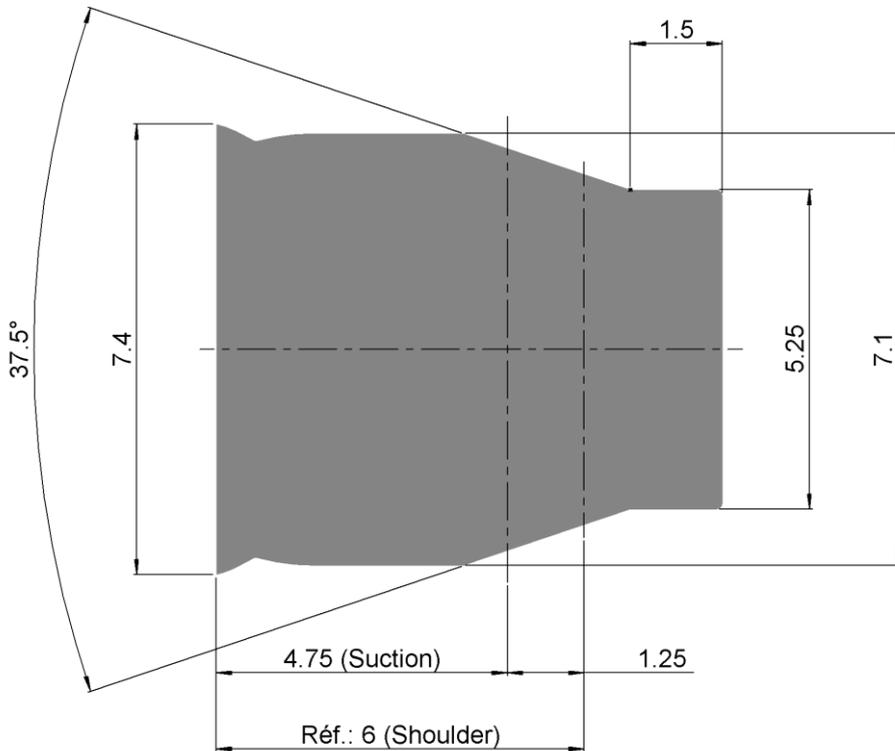


CARRIER TAPE

| | | | |
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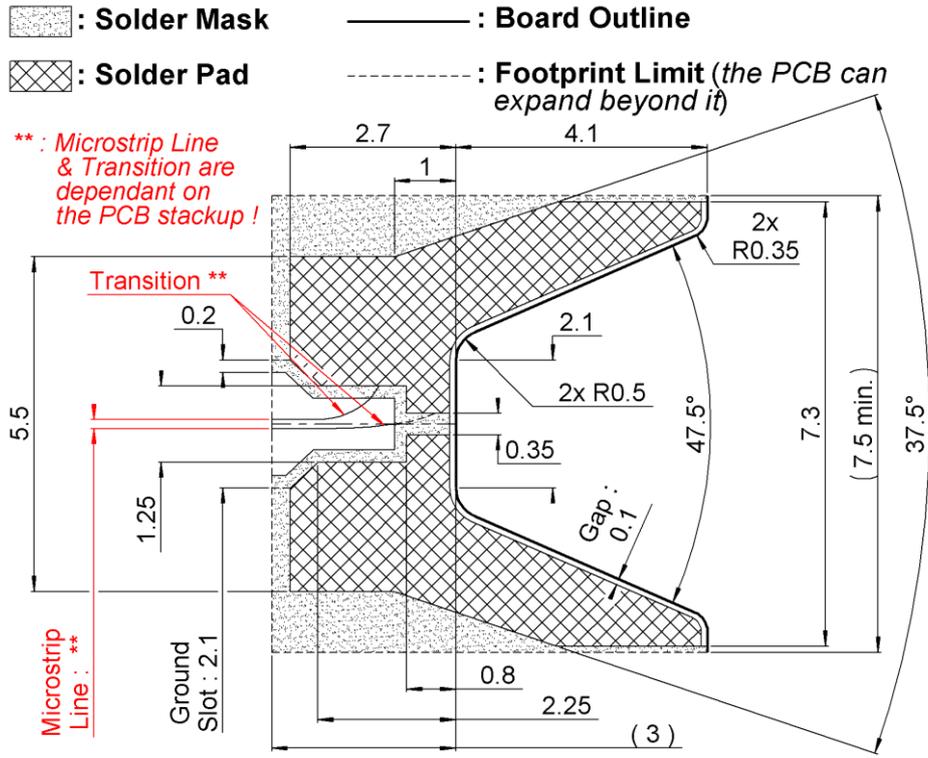


SHADOW FOR VIDEO CAMERA

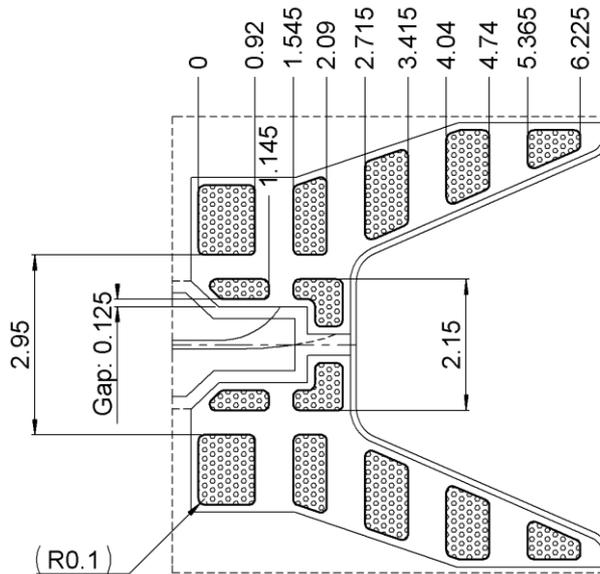


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TYPICAL SOLDER MASK & PAD



SOLDER PASTE (For 80-100µ Thickness Screens)

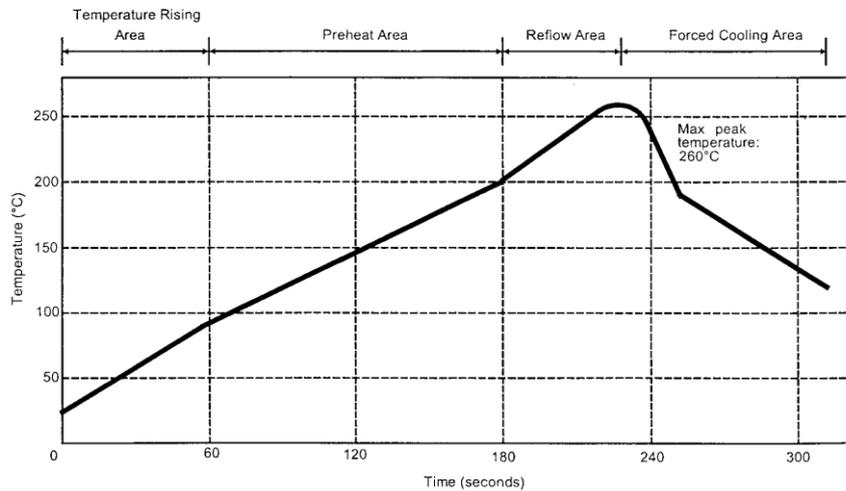


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SOLDER PROCEDURE

1. Deposit solder paste 'SnAg4Cu0.5' (T4 or T5) on mounting zone by screen printing application. We recommend a low residue flux. We advise a thickness of 80 to 100 µm (3,150 to 3,940 mils). 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 possible, but not mandatory.
5. Verification of solder joints and position of the component by visual inspection (*Component centered on pads, with 100µm max. gap between its shoulder & PCB edge*).

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 |