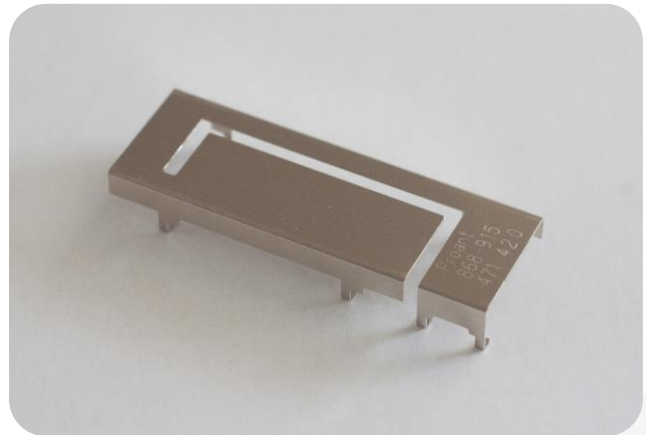


# OnBoard™ SMD 868/915

Small antenna for embedded products on the 868 or 915 MHz ISM bands.

The OnBoard SMD concept offers features like:

- SMD compatibility
- Tape on reel delivery
- Low loss material
- PCB on-ground implementation
- Simple fine tuning by matching network
- RoHS compliance
- Low cost



## Technical data

|                                     |  |
|-------------------------------------|--|
| Part number                         | PRO-OB-471   |
| Frequency                           | 860 – 870 <sup>1)</sup> , 902 – 928 <sup>2)</sup> MHz  |
| Impedance                           | 50 Ω   |
| Return loss                         | < -10 dB <sup>1)</sup> ; < -6dB <sup>2)</sup>  |
| Total efficiency                    | 66% (-1.8dB) peak  |
| Dimensions                          | 34 x 12 x 5 mm   |
| Assembly                            | Pick and place   |
| Soldering                           | Reflow or equivalent   |
| Packing                             | Tape and reel  |
| Temperature                         | -40 to +125° C   |
| Mechanical resistance <sup>3)</sup> | Immunity to vibrations IEC/EN 60068-2-6, Fc test<br>Immunity to shock IEC/EN 60068-2-27, Ea test |

Note:

1) or 2) frequency bands selects by adding matching components.

3) The product has been tested according to the standard IEC 60721-3-5 – Class 5M3 (road vehicles in areas without well-developed road systems, light-weighted vehicles, tracked vehicles and self propelled machines)

Above specification is valid on the Proant evaluation board. See related application note for more information.

Patent: SE537042 + Pending