



Cubunt-C

4 x 4 x 3 mm H3



The RFID Ceramic Tag is a compact, high-performance RFID transponder designed for reliable operation in harsh industrial environments. Built on a high-dielectric ceramic substrate, the tag delivers excellent RF stability, superior performance on metal surfaces, and long-term durability under extreme conditions, such as wetness, high temperature, chemicals, etc.

They can be attached to objects for various applications, such as inventory management, supply chain tracking, asset tracking, aerospace, chemical, automotive, and manufacturing, and product authentication.

Highlights & Benefits

- ✓ Superior RF, thermal and mechanical stability
- ✓ Resistant to heat, moisture, chemicals, ray
- ✓ Longer lifespan even in harsh environments
- ✓ Miniaturization, long read range even small size
- ✓ Sterilizable and biocompatible

Applications

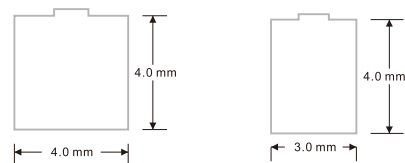
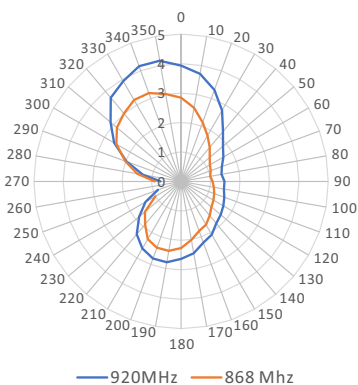
- ✓ Medical device
- ✓ Equipment & tool



Technical Features

| | |
|--------------------------|--|
| Model | RCC6012 |
| RFID Features | |
| Air Interface Protocol | EPC Class 1 Gen 2 / ISO 18000-63 Type C |
| Frequency | 860-960 MHz |
| Chip Type | Alien Higgs 3 |
| Memory | User - 512 bits; EPC - 96 bits; TID - 96 bits |
| Data Storage | > 10 years |
| Re-write | 100,000 times |
| Read Range(2W ERP) | FCC: > 4.0 m(13.1 ft) , on metal ETSI: > 3.0 m(9.8 ft) , on metal |
| Physical Features | |
| Dimension | 4 x 4 x 3 mm / 0.16 x 0.16 x 0.12 in |
| Material | Ceramic |
| Weight | 0.25 g |
| Color | Black |
| Operating Temperature | -40°C to 85°C / -40°F to 185°F |
| Survival Temperature | -40°C to 250°C / -40°F to 482°F |
| Storage Condition | 20±5°C, 50±10% RH, Store away from sunlight |
| IP Rate | IP68, test for 5 hours at 1m deep water |
| Other Features | |
| Installation | Adhesive(clean and dry surface), Rivet, Magnet, Screw |
| Customization | Printing, Encoding, Design, etc. |

Radiation Pattern



PS: The performance is theoretical values in the lab and the actual effect depends on the specific applications.

RICHRFID

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DISCLAIMER

All specifications are indicative and results may vary. Each user bears full responsibility for making its own determination as to the suitability of RICHRFID products, materials, services, recommendations, or advice for its own particular use.

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