



Cubnut-C Micro Cube

4 x 4 x 3 mm H3



The 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 moisture, high temperatures, chemical exposure, and mechanical stress.

It can be easily attached to assets for a wide range of applications — including inventory management, supply chain tracking, asset tracking, and product authentication across demanding industries such as aerospace, automotive, chemical, and manufacturing.

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

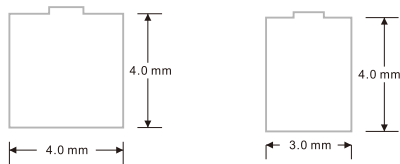
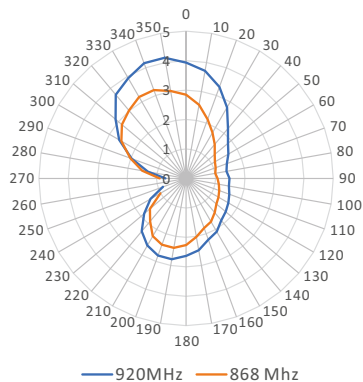
- ✓ Medical device
- ✓ Equipment & tool



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.



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