



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

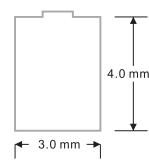
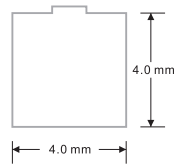
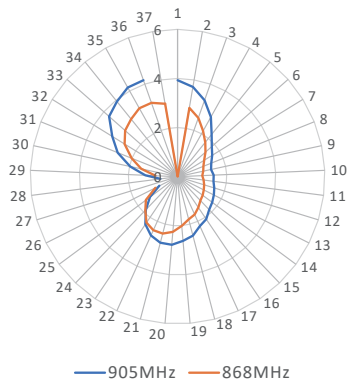
- ✓ Medical device
- ✓ Equipment & tool



Technical Features

Model	C6012
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.