



UHF Spring Tire Tag

50 x 1 & 84 x 1 mm H9



The UHF Spring Tire Tag is designed to be embedded within tires during the manufacturing process, lasting the entire lifetime of the tire. It features a unique identification number that enables tracking to prevent theft and cloning, while also supporting asset management. This tag can also be embedded in other items during production, such as trunks or boxes, thanks to its small size and ability to withstand temperatures of at least 200°C.

Widely used in tire inventory and transport management, the tag facilitates tire production management, traceability, access control, annual inspections, and even racing management. By automating data collection throughout the tire's lifecycle—from production and storage to sales, use, and retreading—the tag enables companies to leverage big data to optimize processes, tailor tire usage for different users, and extend tire service life.

Highlights & Benefits

- ✓ Used for embedding in vehicle tires
- ✓ With high physical elasticity, pressure resistance, stretchability and bending.
- ✓ ETSI(865-868 MHz) and FCC(902-928 MHz) optional
- ✓ Support to international agreements, applicable to more countries.

Applications

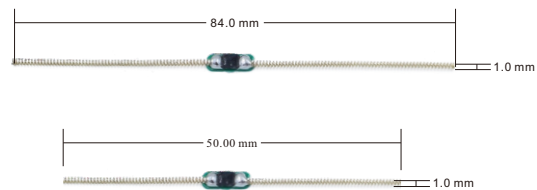
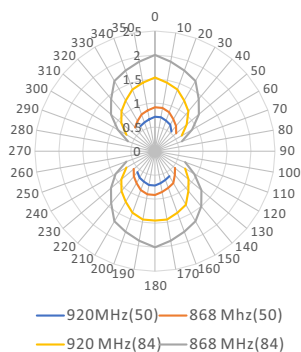
- ✓ Vehicle and truck management
- ✓ Tire anti cloning and brand protection
- ✓ Tire inventory tracking and anti theft



Technical Features

Model	RC9020
RFID Features	
Air Interface Protocol	EPC Class 1 Gen 2 / ISO 18000-63 Type C
Frequency	860-960 MHz
Chip Type	Alien Higgs 9
Memory	User - 688 bits; EPC - 96 bits(up to 496 bits)
Data Storage	> 10 years
Re-write	100,000 times
Read Range(2W ERP)	(50)FCC: > 0.9 m(3.0 ft) , on rubber; ETSI: > 0.7 m(2.3 ft) , on rubber (84)FCC: > 1.5 m(4.9 ft) , on rubber; ETSI: > 2.0 m(6.6 ft) , on rubber
Physical Features	
Dimension	50 x1 mm / 1.97 x 0.04 in 84 x1 mm / 3.31 x 0.04 in
Material	Steel wire
Weight	0.2 g(50 x1 mm)/0.4 g(84 x 1 mm)
Color	Green
Operating Temperature	-40°C to 85°C / -40°F to 185°F
Survival Temperature	-40°C to 200°C / -40°F to 392°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	Insert
Customization	Encoding, Design, etc.
Package	100 pcs / bag, 100 bags / box(50 x 1 mm) 2,000 pcs / bag, 6 bags / box(84 x 1 mm)

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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