



Manufacturer of RFID tags

DATASHEET

UHF Metallica Tag

Tag Code: U1011510

Metallica tag is the UHF Gen2 long range passive tag. It is ideal for harsh environment and gives excellent performance on metallic objects.



Electrical Specification

| | |
|------------------------|--|
| Air Interface Protocol | ISO/IEC 18000-6C, EPC Global C1G2 |
| Operational Frequency | 865 – 868 MHz or 902 – 928 MHz |
| Chip** | Alien Higgs-3 |
| Memory Configuration | EPC–96 bits, extendible to 480bits |
| | TID – 96 bits unalterable unique |
| | User memory – 512 bits |
| | Access password – 32 bits |
| | Kill password – 32 bits |
| Read Range* | On metal – Up to 10 m Off metal – Up to 2 m |

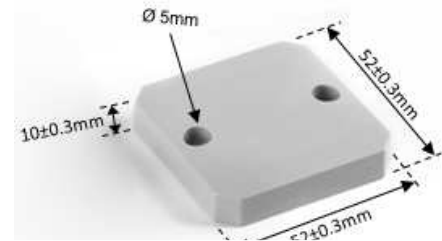
Physical / Mechanical Specification

| | |
|-------------------|-----------------------|
| Dimensions | 52 x 52 x 10 ± 0.2 mm |
| Colour** | Grey |
| Weight | 25 g |
| Encasement | PC / ABS high Impact |
| Quality Assurance | 100% reader tested |

Environmental Resistance

| | |
|---------------------------|----------------------------------|
| Operating temperature | -40°C to +85°C |
| Storage temperature | -40°C to +85°C |
| Ingress protection rating | IP67 |
| Attachment*** | Riveting/Screw/Magnetic/Adhesive |
| Applicable surface | Metal |

Dimensions



Chemical Resistance

Resistant to continuous exposure to salt water for 2 hours

Resistant to continuous exposure to motor oil for 2 hours

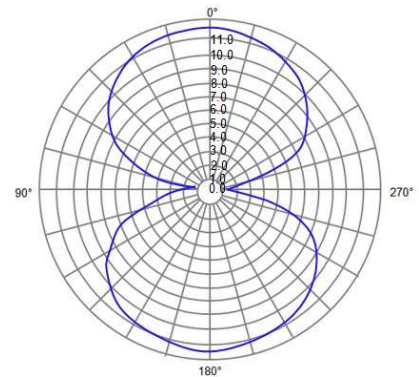
Additionally, abrasion resistant against HCL and IPA

Additional Services

| | |
|------------------|---------------------------------|
| Pre-encoding | On request |
| Customization*** | Logo / text printing on request |

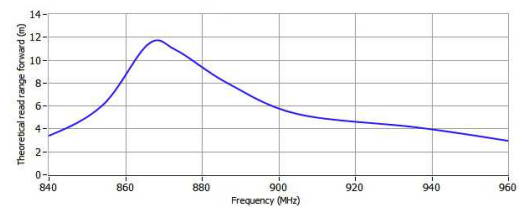
Radiation Pattern Graph

(Orientation v/s Read Range)



Linear Frequency Graph

(Frequency v/s Read Range)



* Actual Read range may vary depending upon the reader and environmental factor

** Other on request

*** Available as an option at extra cost

Order Information

| Part No. | Description |
|-------------|--|
| U1011510-EU | Alien higgs-3 chip tuned at ETSI frequency |
| U1011510-US | Alien higgs-3 chip tuned at US frequency |
| U1011512-EU | Alien higgs-4 chip tuned at ETSI frequency |
| U1011512-US | Alien higgs-4 chip tuned at US frequency |

Omnia Technologies Pvt. Ltd.

Corporate Office
691, Udyog Vihar Phase V, Gurugram, Haryana-122016, India, +91(124) 4203899, 4101506

Manufacturing Unit
Plot No. 68, Sector- 5, IMT Manesar, Gurugram, Haryana - 122050, INDIA | +91(124) 4366174, 4366411, +91 (124) 4366410 (Fax)