



Manufacturer of RFID tags

DATASHEET

UHF Innova Tag

Tag Code: U0412911

Innova Tag is a UHF Gen2 long range passive tag. It is ideal for deployment in rugged and harsh environments and it gives excellent performance on metallic objects & plastic.



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 15 m Off metal – Up to 8 m

Physical / Mechanical Specification

Dimensions	150 x 23 x 18 ± 0.2 mm
Hole Dia	5.0mm
Colour**	Grey
Weight	35 g
Encasement	PC / ABS High Impact
Quality Assurance	100% reader tested

Environmental Resistance

Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +80°C
Ingress protection rating	IP67
Attachment***	Riveting/Screws/Magnetic/Adhesive
Applicable surface	Metal

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

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

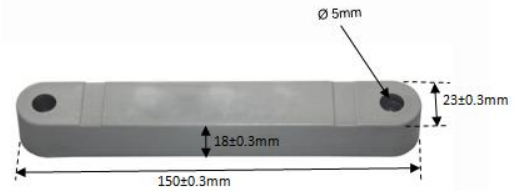
** Other on request

*** Available as an option at extra cost

Order Information

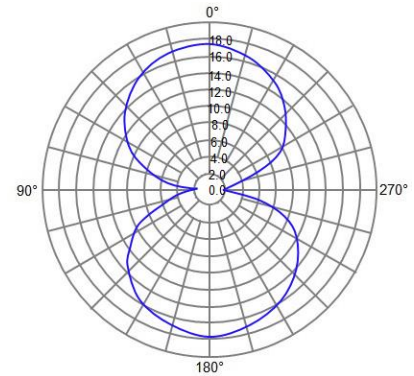
Part No.	Description
U0412911-EU	Alien higgs-3 chip tuned at ETSI frequency
U0412911-US	Alien higgs-3 chip tuned at US frequency

Dimensions



Radiation Pattern Graph

(Orientation v/s Read Range Orientation)



Linear Frequency Graph

(Frequency v/s Read Range Orientation)

