



Manufacturer of RFID tags

DATASHEET

UHF Ceramic Tag

Tag Code: U7021211

Ceramic Tag is ideal for mount on metal application, tool tracking, IT Assets tracking etc. It is available in different chips & memory sizes.



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 1 to 2 m

Physical / Mechanical Specification

Dimensions**	1. 13 x 3.0 x 9.0 ± 0.2 mm 2. 10 x 3.0 x 5.5 ± 0.2 mm
Weight	2.0 g
Encasement	Ceramic
Quality Assurance	100% reader tested

Environmental Resistance

Operating temperature	-40°C to +140°C
Storage temperature	-40°C to +80°C
Ingress protection rating	IP54
Attachment***	Self 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

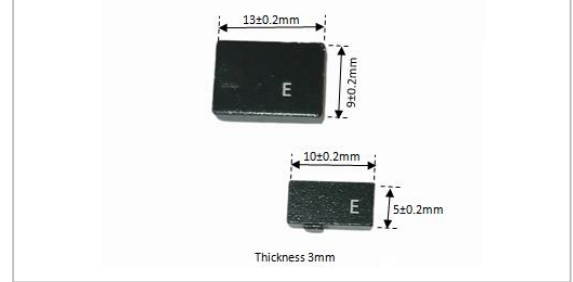
** Other on request

*** Available as an option at extra cost

Order Information

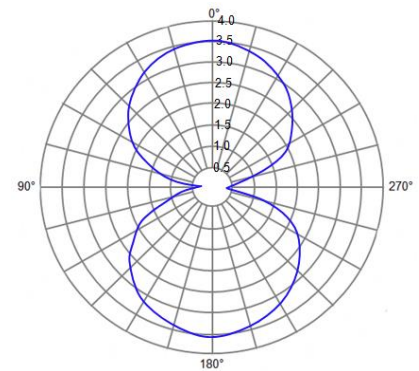
Part No.	Description
U7021211-EU	13x9x3mm with Alien higgs-3 chip tuned at ETSI frequency
U7021211-US	13x9x3mm with Alien higgs-3 chip tuned at US frequency
U7121211-EU	10x5x3mm with Alien higgs-3 chip tuned at ETSI frequency
U7121211-US	10x5x3mm with Alien higgs-3 chip tuned at US frequency

Dimensions



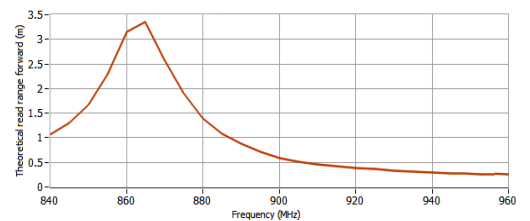
Radiation Pattern Graph

(Orientation v/s Read Range Orientation)



Linear Frequency Graph

(Frequency v/s Read Range Orientation)



Omnia Technologies Pvt. Ltd.

Corporate Office

Plot No. 145, Udyog Vihar Phase 1, Gurugram, Haryana-122016, INDIA

Manufacturing Unit

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