

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 9.0 x 3.0 ± 0.2 mm 2. 10 x 5.0 x 3.0 ± 0.2 mm
Weight	1.8 g & 0.95 g respective to size
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

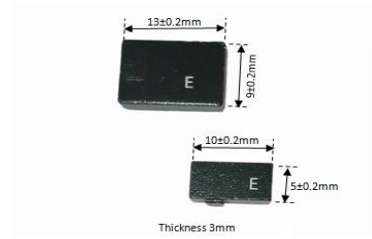
Pre-encoding	On request
Customization***	Logo / text printing on request

- * Actual Read range may vary depending upon the reader and environmental factor
- ** Other on request
- *** Available as an option at extra cost

Order Information

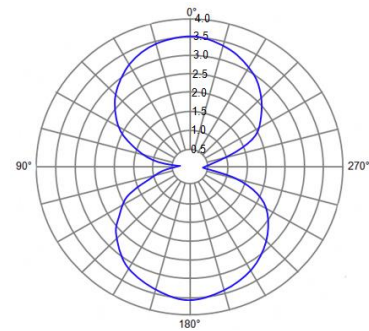
Part No.	Description
U7021211-EU	13x9x3mm with Alien higgs-3 chip tuned at ETSI frequency
U7021211-US	13x9x3mm with Alien higgs-3 chip tuned at US frequency
U7121211-EU	10x5x3mm with Alien higgs-3 chip tuned at ETSI frequency
U7121211-US	10x5x3mm with Alien higgs-3 chip tuned at US frequency

Dimensions



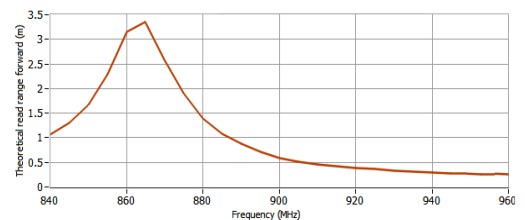
Radiation Pattern Graph

(Orientation v/s Read Range)



Linear Frequency Graph

(Frequency v/s Read Range)



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