Omnia
Manufacturer of RFID tags

DATASHEET

UHF HT Tag

Tag Code: U1142804

HT Tag is the UHF Gen2 long range passive tag. Since the tag is overmolded and rugged constructed, therefore ideal for harsh environment and gives excellent performance when attached to metallic objects.

Electrical Specification

Air Interface Protocol	ISO/IEC 18000-6C, EPC Global C1G2
Operational Frequency	865 – 868 MHz or 902 – 928 MHz
Chip**	NXP U-Code G2XM
Memory Configuration	EPC–96 bits, extendible to 240bits
	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

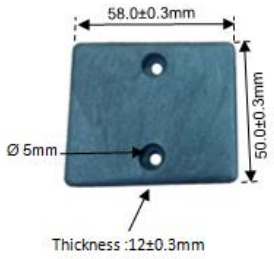
Physical / Mechanical Specification

Dimensions	58 x 50 x 12 ± 0.2 mm
Hole dia	5.0 mm
Weight	48 g
Encasement	High temperature plastic
Quality Assurance	100% reader tested

Environmental Resistance

Operating temperature	-40°C to +80°C
Storage temperature	-40°C to +80°C
Ingress protection rating	IP68
Attachment* **	With screw/Rivets & Adhesive
Applicable surface	Metal

Dimensions

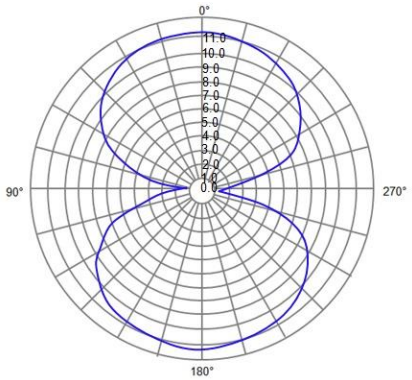


Chemical Resistance

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

Radiation Pattern Graph

(Orientation v/s Read Range Orientation)

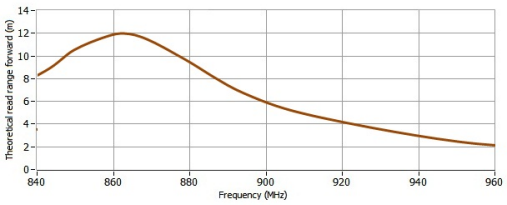


Additional Services

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

Linear Frequency Graph

(Frequency vs Read Range Orientation)



*	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
U1142804-EU	NXP U-CODE G2XM chip tuned at ETSI frequency
U1142804-US	NXP U-CODE G2XM chip tuned at US frequency

Omnia Technologies Pvt. Ltd.

Corporate Office

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