

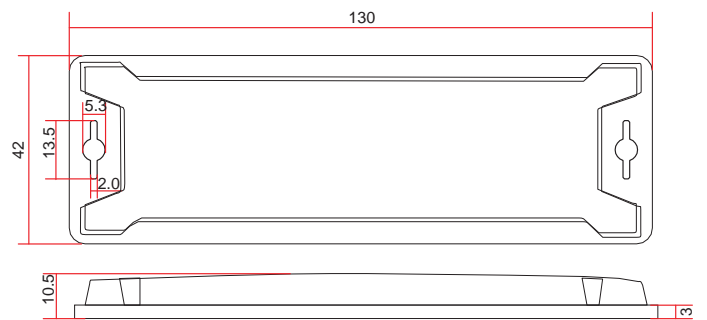


A LONG RANGE HARD TAG with read range of up to 30 meters!

The HT 13042 UHF tag is IP68-rated, making it suitable for harsh outdoor environments and ideal for industrial and logistical processes requiring high reading long read distances in a demanding environment. It offers exposure to water and contaminants. These tags can be mounted onto the surface using pop rivets, cable ties or high-performance adhesives.

### PHYSICAL SPECIFICATION

Tag Material	PC
Tag Dimensions	130 x 42 x 10.5 mm 5.11 x 1.65 x 0.41 in
Adhesive (Optional)	High performance permanent adhesive
Weight	40 gms
Delivery Format	Single Pieces



All sizes in mm

### RF SPECIFICATION

Mode of Operation	Passive
Device Type	Plastic Hard Tag
Air Interface Protocol	EPC Class1 Gen2, ISO18000-6C
Operational Frequency	ETSI: 865-868MHz FCC: 902-928MHz
IC Type	Alien Higgs 3
Memory Configuration	EPC 96bits (Up to 480bits) , USER 512bits, TID64bits
Write Cycle Endurance	100,000
Data Retention	Upto 50 years
Applicable Surface Materials	Metallic surfaces
Read Range (Fixed Reader)	ETSI : On metal upto 17 m(Fixed Reader: 29dBm), upto 28m(Fixed Reader: 36dBm) FCC : On metal upto 18 m(Fixed Reader: 29dBm), upto 30m(Fixed Reader: 36dBm)

# ENVIRONMENTAL RESISTANCE

Operating Temperature	-40°C to +80°C / -40°F to +176°F
Withstands Exposure To	-30°C to +80°C / -22°F to +176°F
Peak Temperature	+80°C / +176°F
Adhesive Service Temperature	-30°C to +80°C / -22°F to +176°F
Recommended Application Temperature	+10°C to +38°C / 50°F to +100.4°F
Water Resistance (IP Rating)	IP68
Ideal Storage Condition	-40°C to +100°C / -40°F to 212°F
Expected Lifetime	Years in normal operating conditions

## PRODUCT INSTALLATION



The tag can be attached to the surface using the following fixing methods

- **Adhesive:**  
The tag is delivered with an optional high-performance adhesive. While mounting the tag ensure clean and dry surface to achieve maximum bond strength.  
Ideal application temperature is from +10°C to 38°C / +50°F to +100.4°F and installation beyond this temperature range is not recommended.  
Bond strength can be improved by applying pressure firmly while mounting the tag.
- **Mechanical Fixing:**  
Achieved by using a screw or a pop rivet and is a recommended for environments that involve high mechanical stress.  
During fixing make sure there is no air gap left in between the metal surface and tag.
- **Cable Tie:**  
Metallic or plastic cable ties can also be used to mount the tag onto the surface.

## PERSONALIZATION OPTIONS

### Pre-encoding

- Customer specific encoding of EPC

### Customized Laser Engraving

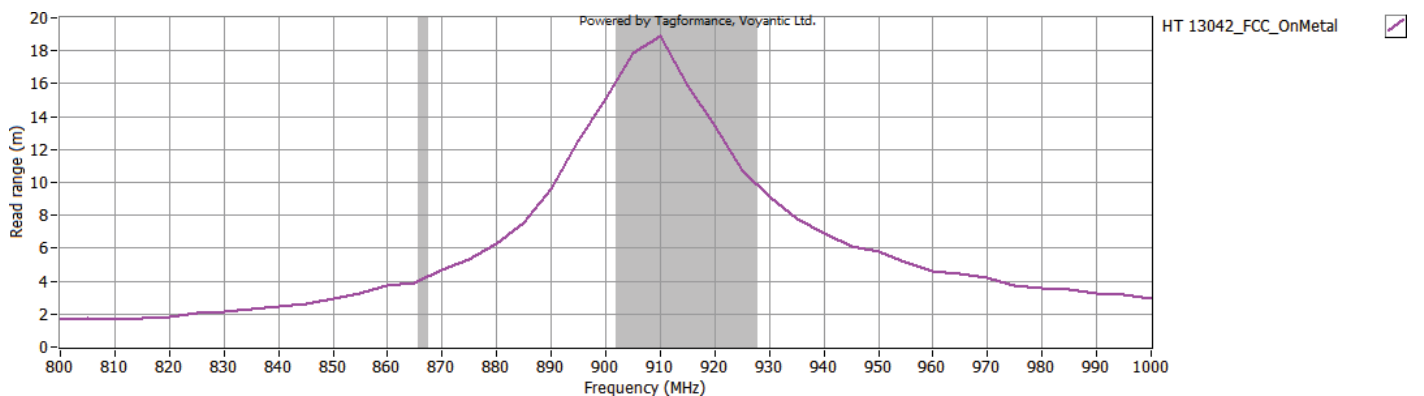
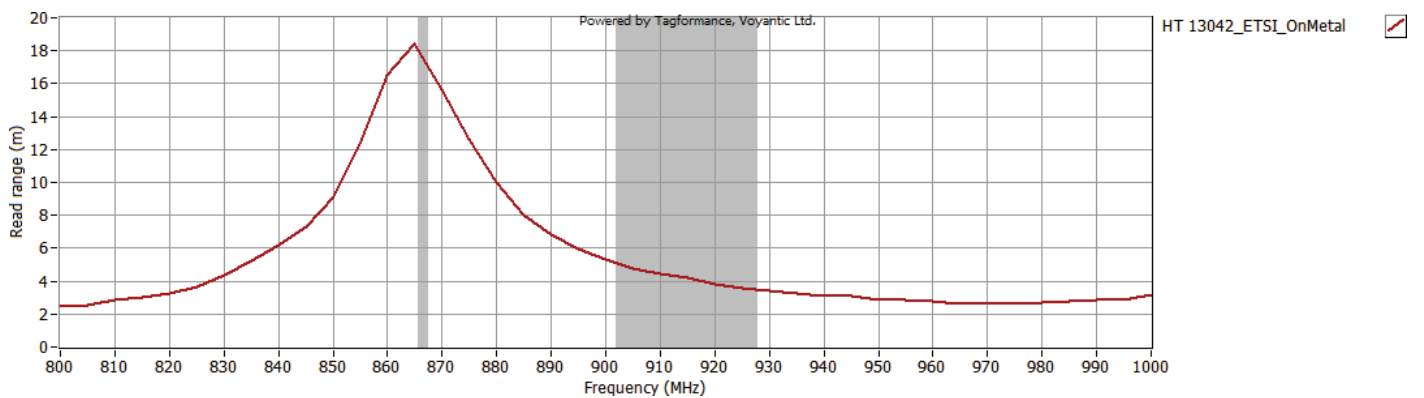
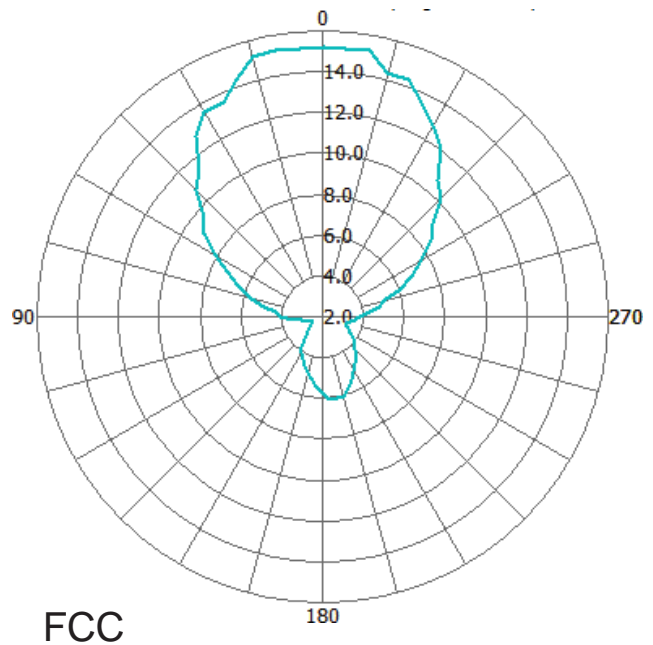
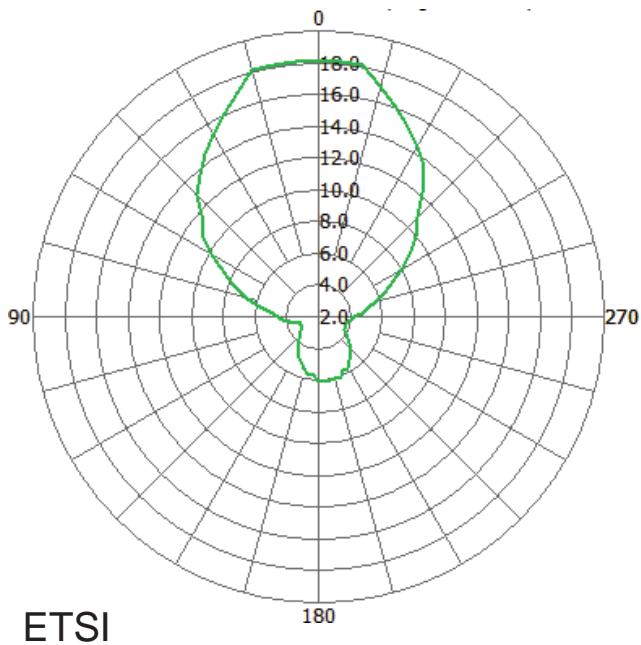
- Customer specific layout including logo, text, and numbers.

## ORDER INFORMATION

### Part Number

- RF.HT.13042.ETSI.H3
- RF.HT.13042.FCC.H3

# RADIATION PATTERN & READ RANGE GRAPH (ETSI & FCC)



\*\* The indicated read range values are measured in our laboratory testing environment, where antennas with optimum directivity are used with maximum allowed operating power. Different surface materials and environments may exhibit different results.



Version : 210420.01



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