

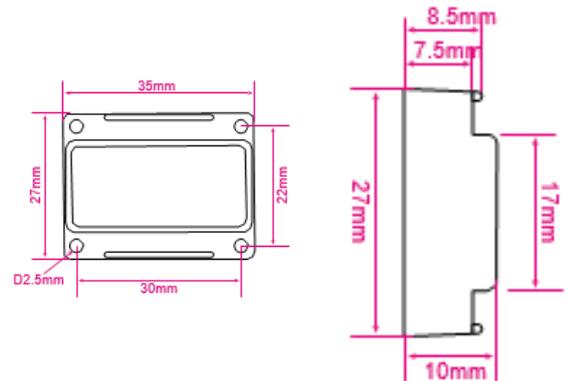


Rhino HT-HTP 3527 is a High Temperature and acid alkali resistant RAIN (UHF) RFID tag optimized for metal substrates that has the ability to survive temperature of 230°C for extended periods and can withstand peak temperatures of upto 280°C. With a rugged encapsulation, this RAIN (UHF) RFID tag is ready for deployment in a variety of applications without compromising read range performance.

This High Temperature RFID Tag is an ideal solution for applications where surviving repeated exposure to excessive heat challenging environments is needed. This tag is also resistant to strong acids and alkali solutions.

PHYSICAL SPECIFICATION

Tag Material	PEEK
Tag Dimensions	35 x 27 mm , Hole D: 2.5 mm T: 10 mm 1.37 x 1.06 in , Hole D: 0.09 in T: 0.39 in
Mounting Method	Screw - Socket head cap screw(M2)
Weight	11 g
Delivery Format	Single Pieces



RF SPECIFICATION

Mode of Operation	Passive
Device Type	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 1.5m (865-868MHZ) FCC : On metal 1.5m (902-928MHZ)
Read Range (Handheld Reader)	ETSI : On metal 0.8m (865-868MHZ) FCC : On metal 1.0m (902-928MHZ)

ENVIRONMENTAL RESISTANCE

Operating Temperature	-40°C to +150°C / -40°F to +302°F
Withstands Exposure To	<ul style="list-style-type: none">• Withstand 280°C for 1000 hours continuously without damage.• Withstand 260°C for 1500 hours continuously without damage.• Withstand -20°C for 8 hours then 260°C for 16 hours per day, 60 days continuously without damage.• Withstand from 150°C to -40°C, 7.5 cycles per day, 80 days continuously with total 600 cycles without damage.• Withstand 260°C for 100 hours continuously then soaking in 2m depth water for 48 hours, without seepage or damage.
Peak Temperature	+280°C / +536°F
Recommended Application Temperature	+10°C to +38°C / 50°F to +100.4°F
Water Resistance (IP Rating)	IP68, IP69K
Chemical Resistance	PH0 to PH14, and all other liquid that PEEK can handle.
Compression Strength	150Mpa
Ideal Storage Condition	-60°C to +230°C / -140°F to 446°F; +260°C for 1500 hours.
Expected Lifetime	Years in normal operating conditions

PRODUCT INSTALLATION



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

- **Mechanical Fixing:**
Achieved by using socket head cap screw(M2) 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.

PERSONALIZATION OPTIONS

Pre-encoding

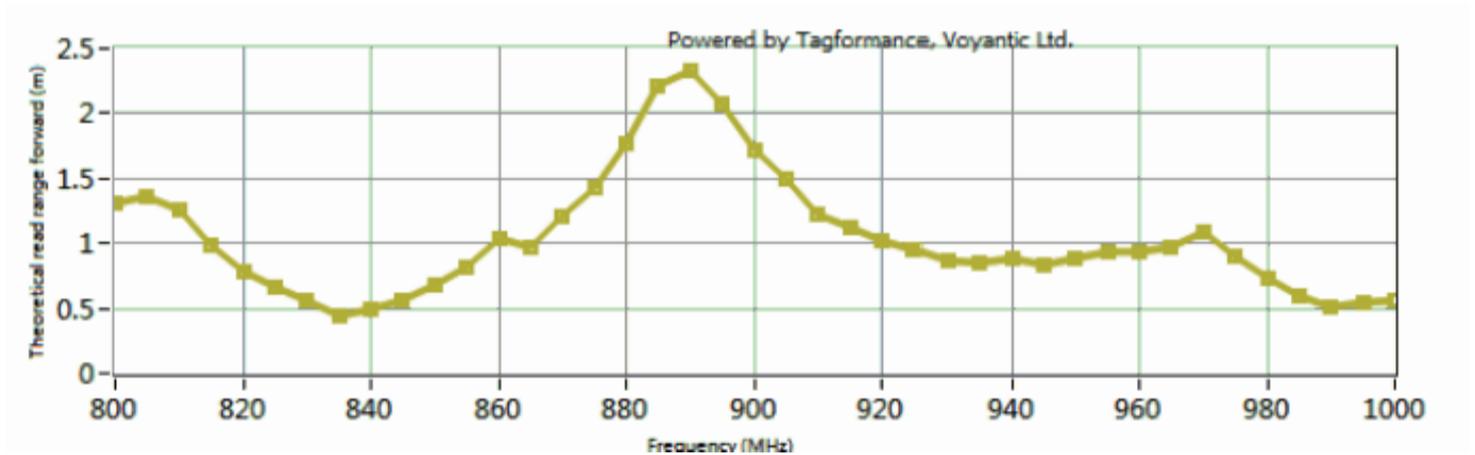
- Customer specific encoding of EPC

ORDER INFORMATION

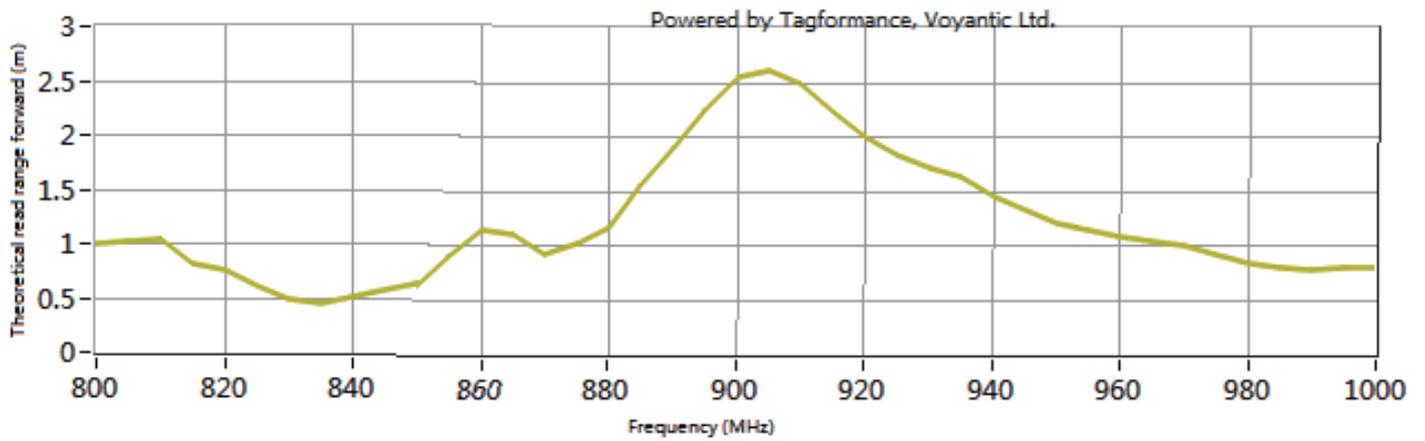
Part Number

- RF.HT-HTP.3527.ETSI.H3
- RF.HT-HTP.3527.FCC.H3

READ RANGE GRAPHS (ETSI & FCC)



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.