



SIVA's NFC HT 5020 is the company's first NFC Hard Tag offering. This tag is commonly used for various asset management as well authentication applications that are exposed to harsh outdoor and industrial environments and general rough handling situations. The tag also features a small form factor which makes it easier to deploy. NFC tags operate in the HF (High Frequency) band of 13.56 MHz.

PHYSICAL SPECIFICATION

Tag Material	ABS
Tag Dimensions	50 x 20 x 4 mm 1.97 x 0.78 x 0.16 in
Weight	3.4 g
Delivery Format	Single Pieces



RF SPECIFICATION

Mode of Operation	Passive
Device Type	Plastic Hard Tag
Air Interface Protocol	ISO/IEC14443 Type A
Operational Frequency	13.56 MHz
IC Type*	NTAG 213
Memory Configuration	180 bytes organized in 45 pages with 4 bytes per page
Write Cycle Endurance	100,000
Data Retention	Upto 10 years
Applicable Surface Materials	All surfaces

ENVIRONMENTAL RESISTANCE

Operating Temperature	-50°C to +85°C / -58°F to +185°F
Withstands Exposure To	-50°C to +85°C / -58°F to +185°F
Peak Temperature	+85°C / +185°F
Adhesive Service Temperature	-40°C to +148°C / -40°F to +298.4°F
Recommended Application Temperature	+10°C to 38°C / +50°F to +100.4°F
Water Resistance (IP Rating)	IP68
Chemical Resistance	No physical or performance changes in: - 168 h Salt water (salinity 10%) exposure - 168 h Motor oil exposure - 12 h NaOH (10%) exposure - 30 min Acetone exposure
Ideal Storage Condition	+23°C / +73.4°F , 50% RH
Expected Lifetime	Years in normal operating conditions

PRODUCT INSTALLATION



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

- **Cord/String:**

The tag carries 10mm x 4mm slit at one end, through which a metallic or plastic cord/string/cable tie has to be passed through for it to be attached to the asset. The tag is mounted onto the asset either by manually knotting or fastening the cord/string/cable tie, using cord locks or by using a hang tag gun.

PERSONALIZATION OPTIONS

Pre-encoding

- Customer specific encoding

Customized Laser Engraving

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

ORDER INFORMATION

Part Number

- RF.HT.NFC.5020

No. of Pieces

- 250 per box.

* Other IC's available on request

** 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.



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