# BEECHAT VAULT NA\_V2\_P



### PRODUCT DESCRIPTION

**Beechat Vault NA\_V2\_P NFC Tag 01** – is an ultra small size NFC tag – 9.7×9.7×1.6mm using the ST chip M24SR64-Y with 8-Kbyte (64-kbit) EEPROM memory and uses the NFC ISO/IEC 14443 Type A interface. Working distance – up to 20mm.

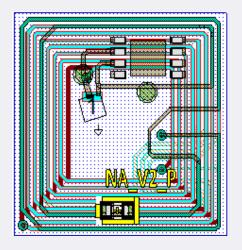
01

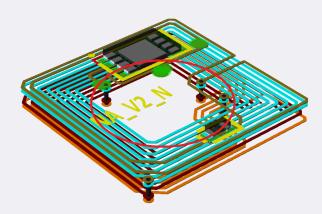
## **KEY FEATURES**

- 1. Compatible with Android and iOS as well as NFC ISO/IEC 14443 compatible readers.
- 2. High storage capacity, capable of storing large amounts of information via NFC compared to other tags on the market.
- 3. AES-128-bit password protection available on-tag.
- 4. 200 years data retention, and all weather enclosure.

02

## **PRODUCT IMAGE**





Beechat Vault NA\_V2\_P NFC Tag 01

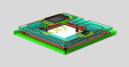
## **TECHNICAL SPECIFICATIONS**

#### Layout

## Contactless interface

### Memory





- NFC Forum Type 4 Tag
- ISO/IEC 14443 Type A
- 106 Kbps data rate
- 8-Kbyte (64-kbit) EEPROM
- Support of NDEF data structure
- Data retention: 200 years
- Write cycle endurance:
- 1 million Write cycles at 25 °C
- 600k Write cycles at 85 °C
- 500k Write cycles at 105 °C
- Read up to 246 bytes in a single command
- Write up to 246 bytes in a single command
- 7 bytes unique identifier (UID)
- 128 bits passwords protection Forum Type 4 Tag
- ISO/IEC 14443 Type A
- 106 Kbps data rate

Working distance

Size

Weight

**Working Frequency** 

Matching (S11) on 13.56MHz

S11 Graph

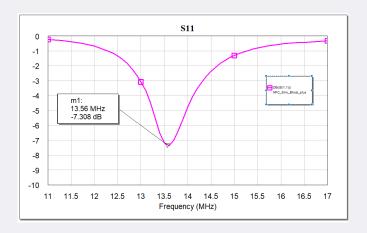
up to 20 mm

9.7×9.7×1.6mm

2g

13.56 Mhz

< -7dB







• Layers: 4

• PCB Thickness: 0.8

Impedance: no JLC7628
Outer Copper Weight: 1
Inner Copper Weight: 0.5
Material Type: FR4-Stand

• ard Tg 130-140C

• Appearance Quality: IPC Class 2

Standard

#### a) JLC7628 Stackup:

Layer	Material type	Thickness (mm)	
Top Layer 1	Copper	0.035	
Prepreg	7628*1	0.2	
Inner Layer 2	Copper	0.0175	0.3 mm (with copper core)
Core	Core	0.265	
Inner Layer 3	Copper	0.0175	
Prepreg	7628*1	0.2	
Bottom Layer 4	Copper	0.035	

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