



**DUAL FREQUENCY  
BATTERY ASSISTED PASSIVE  
NFC / HF / UHF  
TEMPERATURE SENSOR TAG**

**85 x 54 x 0.9 mm**


**ISO14443A or ISO15693**

**13,56 MHz**

**860...960 MHz**

**ISO18000-6**

**Technical Data:**

<b>Product:</b>	NFC UHF CARD SIZE NFC UHF TEMPERATURE SENSOR TAG for Industrial Applications readable with UHF RFID Reader and NFC enabled smart phone, 13,56 / 865...928 MHz High/Ultra High Frequency with ISO14443 or ISO15693 and ISO18000-6 support	
<b>Options:</b>	Customized 4 colour print (Logo, UID, Serial-No., QR-Code) on one side	
<b>Max. Read Range:</b>	ISO14443 up to 50 mm, ISO15693 up to 80 cm, ISO18000 up to 3 m	(Depends on reader power)
<b>Frequency:</b>	13,56 / 865...928 MHz	(At room temperature 20°C)
<b>ISO Standard:</b>	ISO14443 or ISO15693 and ISO18000	NFC Forum Type 2 compliant Class 1 Gen 2 compliant
<b>Dimensions / Weight:</b>	85 x 54 mm, Thickness < 1 mm	0,5g
<b>Material / Colour:</b>	Paper cover, AL	White, other colour and logo QR Code number print on request
<b>Minimum Order Quantity:</b>	5000 pieces	
<b>Temperature:</b>	Operating: -35°C ... + 65°C	Storage: -40°C ... + 85°C
<b>Certification / Other:</b>	<b>CE</b>	<b>RoHS</b> ✓ 
<b>Part Description:</b>	DF-C-8554-FM13DT160	Other RF Chip versions are available on request

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**NFC Temperature Logger Tag Structures :**

<b>Temperature Accuracy:</b>	± 0.5 °C
<b>Recording Mode:</b>	Continuous / out of limit
<b>Resolution:</b>	> 1 second to 4 hours
<b>Data Storage Time:</b>	> 10 years
<b>Unique Identification Code:</b>	64 bits
<b>Sensor:</b>	Invisible, integrated in the TAG
<b>Interface/Communication:</b>	Wireless: NFC (Near Field Communication) and UHF (Ultra High Frequency) RFID
<b>Programming:</b>	Programmable µConroller for Tracing and Configuration
<b>Power supply:</b>	Integrated Thin Paper Battery for active Tracking
<b>Housing:</b>	Tamper Proof disposable design

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**Features:**

<b>Traceability:</b>	Consumer participatory tag trigger
<b>Reading:</b>	With NFC enabled Smartphone and UHF RFID Handheld Device
<b>Supply Chain:</b>	Traceable data from producer till end user
<b>Housing:</b>	Slim, light, flexible curvature integration sticker
<b>Air Transport of DG:</b>	Disposable and eco-friendly, DGM (Dangerous Goods Management) certificate

**Temperature Tracking Applications:**

- **Fresh Food, Wine and Alcohol**
- **Flowers and Lives**
- **Pharmacy, Vaccine, Medicinal Substances**
- **Temperature Sensitive Products**
- **Your idea**



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