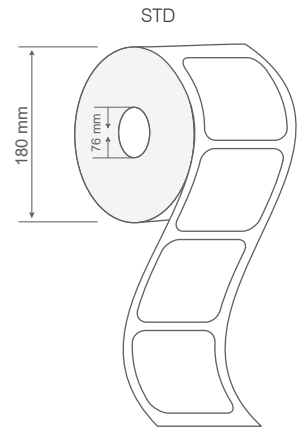
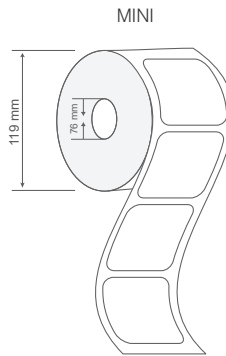


SIVA's NFC 4545 labels are a high quality NFC stickers in roll form. These labels are highly durable to establish intuitive one touch communication between existing technologies and devices. These NFC labels come with High performance permanent adhesive as standard.

NFC labels measure 45 by 45 millimeters and are delivered on rolls for easy handling. These labels can be pre-printed and encoded with artworks and human readable data according to the customer requirements.

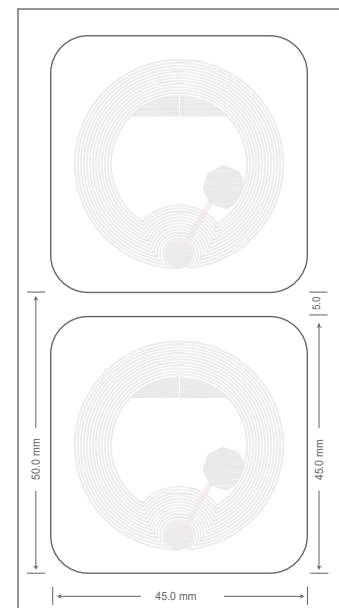
TYPICAL APPLICATIONS

- Smart Advertising
- Goods & Devices Authentication
- Business Cards
- Voucher & Coupons



PHYSICAL SPECIFICATION

Face Stock	Printable white PET, resin ribbon is recommended	
Label Sizes	45 x 45 x 0.2 mm 1.7 x 1.7 x 0.01 in	
Adhesive	High performance permanent adhesive with excellent bonding to all types of surfaces	
Weight	0.486 gm	
Delivery format	Roll form	
No. of Labels/ Reel	std: 2000 pcs	mini: 500 pcs
Label Pitch	50 mm	
Core inner diameter	76 mm / 3 in	
Roll outer diameter	std: 180 mm / 7.08 in	mini: 119 mm / 4.68 in



RF SPECIFICATION

Mode of Operation	Passive
Device Type	NFC Forum Type 2
Air interface Protocol	NFC forum type 2 tag and ISO14443A
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	10 years
Applicable surface materials	Non-metallic Surfaces

ENVIRONMENTAL RESISTANCE

Operating temperature	-20°C to +70°C / -4°F to +158°F
Withstands Exposure to	95% humidity, 60°C × 100 h, 50% humidity, 80°C × 100 h
Peak Temperature	+100°C for 1 hr, +80°C for 100 hrs (Label remains securely attached with object. No physical or performance changes observed.)
Recommended Application Temperature	+10°C to +38°C / 50°F to +100.4°F
Water Resistance	IP67
Adhesive Service Temperature	-20°C to +85°C / -4°F to +185°F
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 / 50% RH
Expected lifetime	Years in normal operating conditions

PRODUCT INSTALLATION



- Ensure the application surface is not uneven and is clean and dry, to obtain maximum bond strength. If required, use approved cleaning solvents to clean surface.
- Avoid touching the backside of the label while mounting it

* 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.

PERSONALIZATION OPTIONS

Pre-encoding

- Customer specific encoding

Customized Printing

- Customer specific layout including logo, text, numbers, barcodes etc.

ORDER INFORMATION

Part Number

- RF.Li.TT.NFC.4545

Roll Sizes

- std: 2000 Labels per Roll / 4 Rolls per Carton
- mini: 500 Labels per Roll



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