SMART RFID LABELS
Ferro-MOM 3520

SIVA
Ferro-MOM 3520

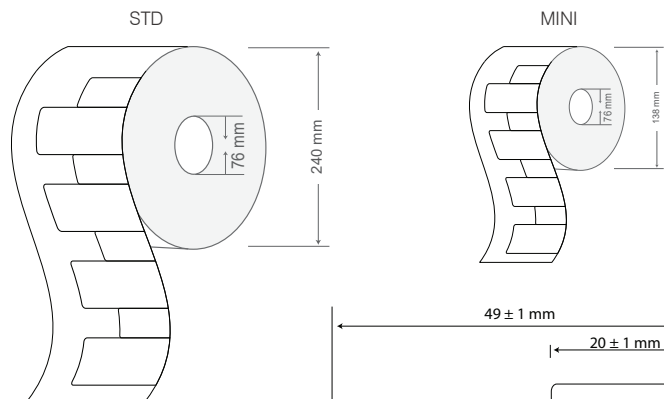10002114545640000

35 mm
20 mm

SIVA's Ferro-MOM 3520 is a passive RAIN (UHF) RFID label for Mount on Metal applications demanding long read range in small form factor with a high performance permanent adhesive. These labels feature a film face to print private logos, product information, or scan able barcodes directly on the label and its additional flexibility for curved surfaces makes it perfect for tracking a variety of transit items.

This product is ideal for asset tracking of medical devices, IT (information technology) asset tracking, industrial asset tracking, tracking high value/luxury retail items, etc. among a list of other asset tracking applications.
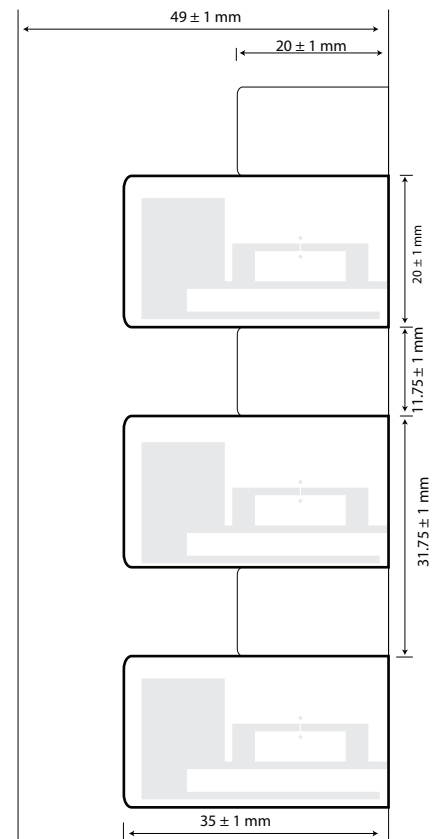
TYPICAL APPLICATIONS

Only for metal surfaces

- Indoor Asset Management: IT Assets, furniture's, home appliances and kitchen equipment
- Automotive: Components, spare parts and RTI's
- Healthcare: Hospital Assets & Equipment's
- Industrial: Metal assets, structural steel and RTI's
- Retail: RTI's

STD

76 mm
240 mm

MINI

76 mm
138 mm

49 ± 1 mm
20 ± 1 mm
20 ± 1 mm
11.75 ± 1 mm
31.75 ± 1 mm
35 ± 1 mm

PHYSICAL SPECIFICATION

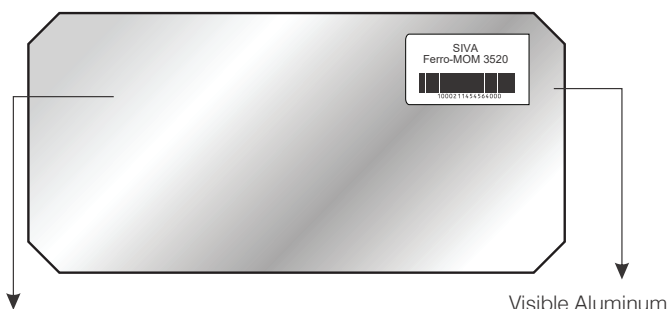|		
Face Stock	Printable white PET, resin ribbon is recommended	
Label Sizes	35 x 20 x 2.1 mm 1.37 x 0.78 x 0.003 in	
Adhesive	High performance acrylic adhesive	
Weight	0.38 gm	
Delivery format	Roll form	
No. of Labels/ Reel	std: 500 pcs	mini: 125 pcs
Label Pitch	31.75 mm / 1.25 in	
Core inner diameter	76 mm / 3 in	
Roll outer diameter	std: 240 mm / 9.44 in	mini: 138 mm / 5.43 in

RF SPECIFICATION

Mode of Operation	Passive
Device type	Class 1 Gen 2 Passive UHF RFID transponder
Air interface protocol	EPC Global Class 1 Gen 2 ISO 18000-6C
Operational frequency	ETSI 865-868 MHz FCC 902-928 MHz
IC type*	NXP UCODE 8
Memory configuration	EPC Size 128 bit, 96 bit TID with 48 bit Unique serial number
Write cycle endurance	Minimum 100,000
Data Retention	Upto 20 years
Read range (2W ERP)**	ETSI: On Metal Center 2.5m / 5.9ft, Edge 4.8m / 15.7ft, PTFE*** 0.25m / 0.82ft, Glass*** 0.3m / 0.98ft
	FCC: On Metal Center 4.0m / 13.1ft, Edge 8.0m / 26.2ft, PTFE*** 0.15m / 0.49ft, Glass*** 0.15m / 0.49ft
Applicable Surface Materials	All surfaces

ENVIRONMENTAL RESISTANCE

Operating Temperature	20°C to +70°C / -4°F to +158°F
Withstands Exposure To	Tested at 85°C / 185°F for one month, no change in electrical behavior observed
Peak Temperature	85°C / 185°F
Adhesive Service Temperature	+70°C / 158°F
Recommended Application Temperature	23°C to 25°C / 73.4°F to 77°F
Water Resistance	IP68, tested for 5 hours in 1m deep water
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

Attach label in close proximity to edge of metal surface for optimum read range performance, as shown in image below.

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1000211454564000

Left over metal remains on this side of label

Visible Aluminum track this side

- 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

PERSONALIZATION OPTIONS

Pre-encoding
- Customer specific encoding of EPC

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

ORDER INFORMATION

Part Number
- RF.LI.TT.MOM.3520.ETSI
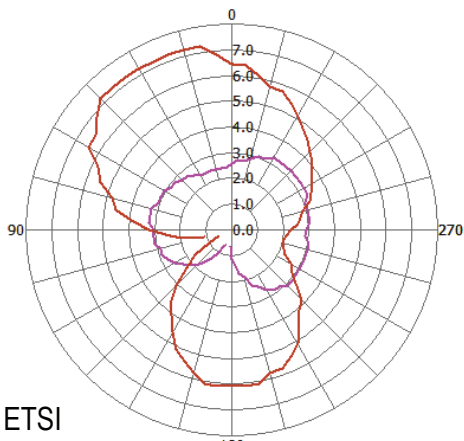- RF.LI.TT.MOM.3520.FCC

Roll Sizes
- std: 500 Labels per Roll / 4 Rolls per Carton
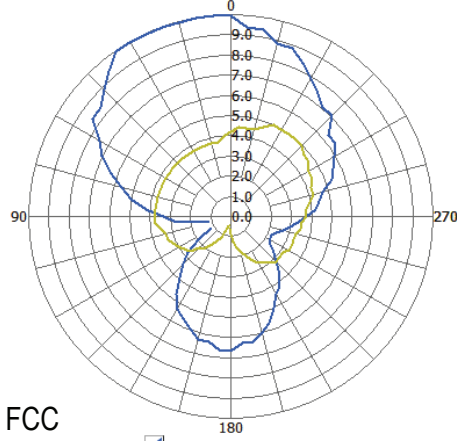- mini: 125 Labels per Roll

PRINTER COMPATIBILITY
- Contact us for RFID printer compatibility and settings

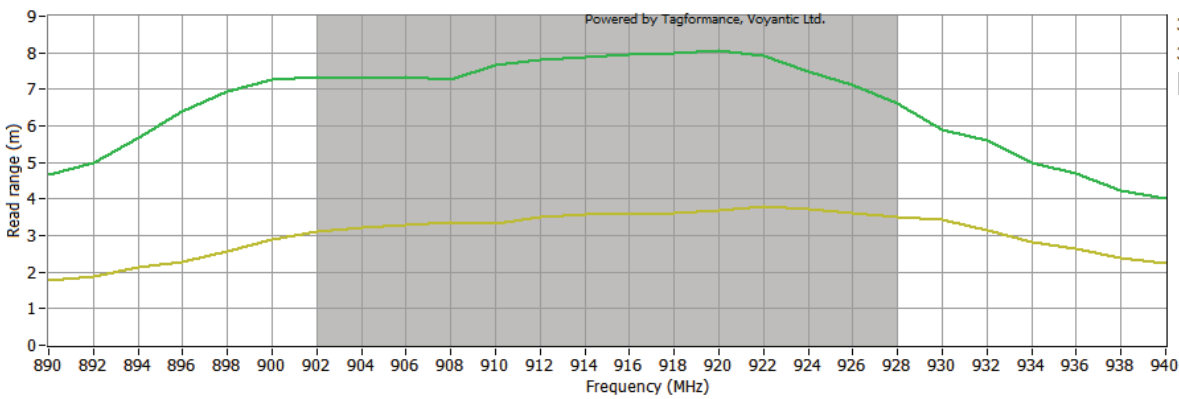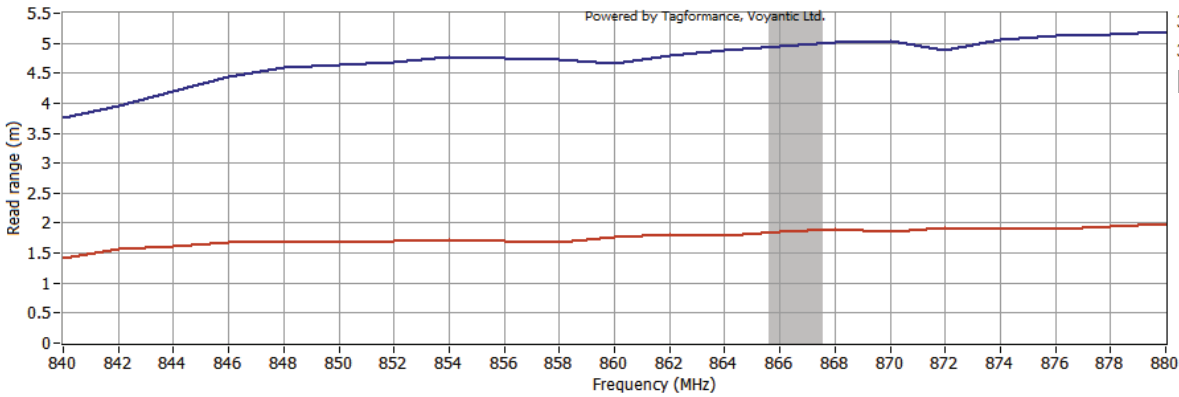# RADIATION PATTERN & READ RANGE GRAPH (ETSI & FCC)

ETSI

| 3520_ETSI_center | |
| 3520_ETSI_edge | |

FCC

| 3520_FCC_EDGE | |
| 3520_FCC_CENTER | |

3520_center_FCC

3520_edge_FCC

FCC

3520_ETSI_center

3520_ETSI_edge

ETSI

* 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.
*** Read Range Values for PTFE and Glass measured using Motorola MC919ZEU HH reader

CE   RoHS compliant

Version : 161121.01

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