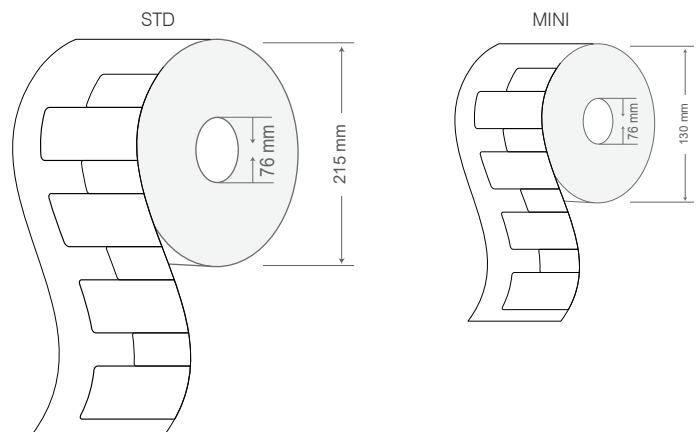Ferro-MOM 2916

1000211454564000

16 mm

29 mm

SIVA's Ferro-MOM 2916 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.
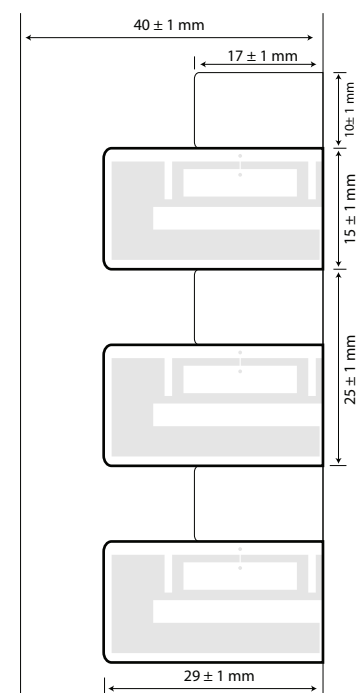
TYPICAL APPLICATIONS

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, 215 mm

MINI — 76 mm, 130 mm

PHYSICAL SPECIFICATION

Face Stock	Printable white PET (Resin ribbon is Recommended)
Label Sizes	29 x 16 x 2.1 mm 1.14 x 0.63 x 0.003 in
Adhesive	High performance acrylic adhesive
Weight	0.234 gm
Delivery format	Roll form
No. of Labels/ Reel	std: 500 pcs mini: 125 pcs
Label Pitch	25.4 mm / 1 in
Core inner diameter	76 mm / 3 in
Roll outer diameter	std: 215 mm / 8.45 in mini: 130 mm / 5.11 in

40 ± 1 mm

17 ± 1 mm

10 ± 1 mm

15 ± 1 mm

25 ± 1 mm

29 ± 1 mm

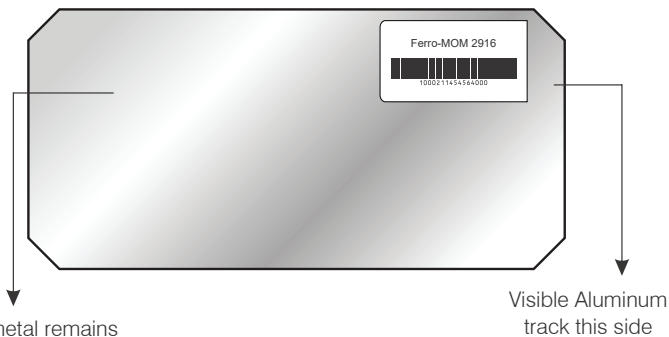## RF SPECIFICATION

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	Upto 128 bits
Write cycle endurance	Minimum 100,000
Data Retention	Upto 20 years
Applicable Surface Materials	All surfaces
Read range (2W ERP)**	ETSI: On Metal Center 1.5 m /4.9 ft , Edge 5.0 m /16.4 ft , PTFE*** 0.15 m /0.49 ft , Glass*** 0.15 m /0.49 ft FCC: On Metal Center 2.6 m /8.5 ft , Edge 5.7 m /18.7 ft , PTFE*** 0.18 m /0.59 ft , Glass*** 0.14 m /0.45 ft

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.

Ferro-MOM 2916
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.
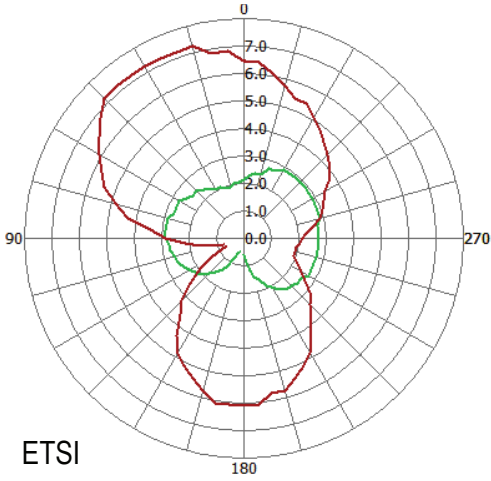
ORDER INFORMATION

Part Number
- RF.LI.TT.MOM.2916.ETSI
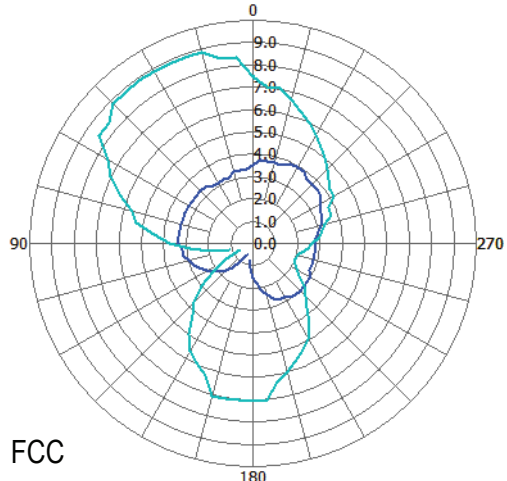- RF.LI.TT.MOM.2916.FCC

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

RADIATION PATTRN AND READ RANGE GRAPH (ETSI & FCC)

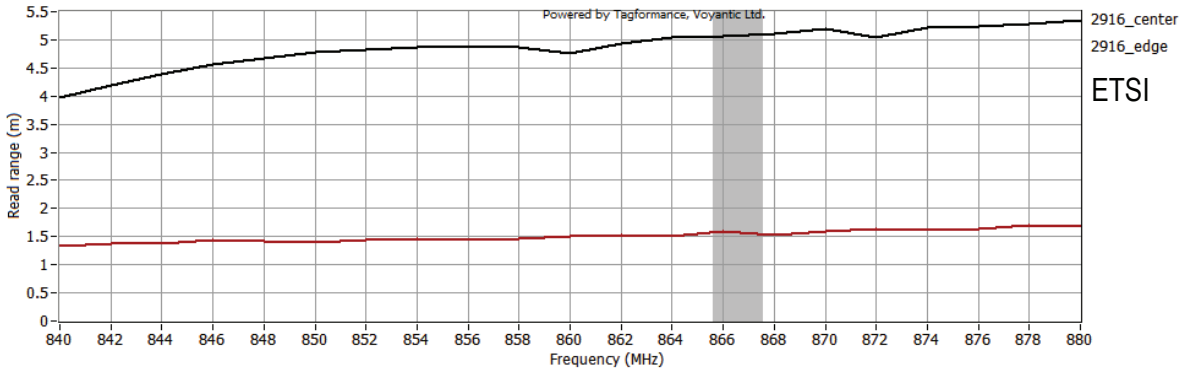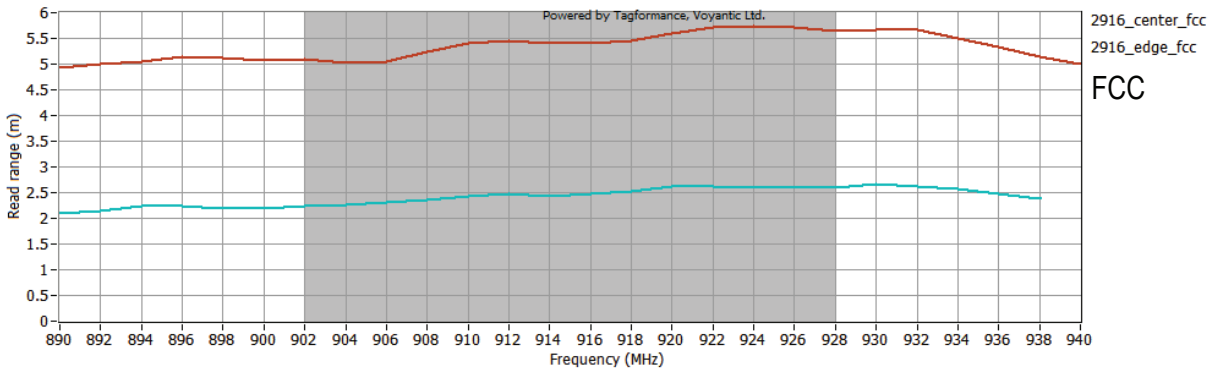ETSI

2916_center_ETSI
2916_edge_ETSI

FCC

2916_center_fcc
2916_edge_fcc

2916_center
2916_edge

ETSI

2916_center_fcc
2916_edge_fcc

FCC

* 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 : 170221.01

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