



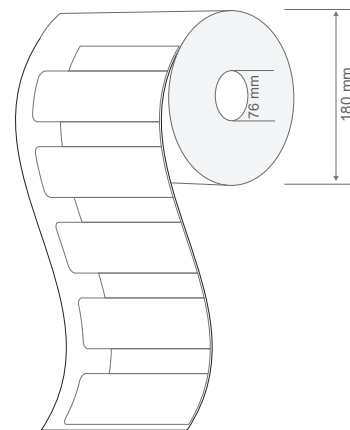
Syndicate MOM 6024 is a passive UHF RFID label for Mount on Metal applications demanding long read range in small form factor with a high performance permanent adhesive. These labels feature a film face to print private logos, product information, or scannable barcodes directly on the label and its additional flexibility for curved surfaces makes it perfect for tracking a variety of transit items.

With balanced performance on metal and liquid container, this product is ideal for tracking asset and tool tracking in medical devices for healthcare, laptops & servers in IT (information technology), industrial manufacturing, oil & gas pipelines, liquid container tracking, high value/luxury retail items and many other industry verticals.

### TYPICAL APPLICATIONS

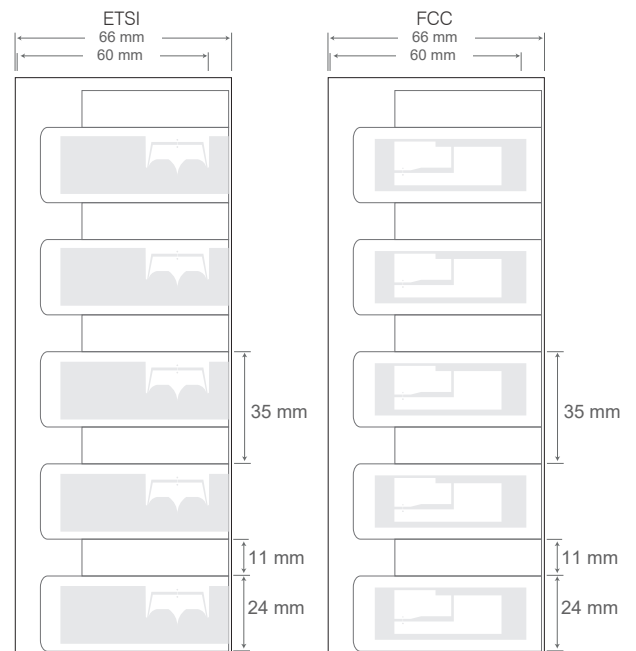
Only for metal surfaces

- 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



### PHYSICAL SPECIFICATION

Face Stock	Printable white PET, resin ribbon is recommended
Label Sizes	60 x 24 x 1.2 mm 2.36 x 0.94 x 0.047 in
Adhesive	High performance acrylic adhesive
Weight	0.6 g
Delivery format	Roll form
No. of Labels/ Reel	500 pcs
Label Pitch	35.00 mm / 1.38 in
Core Inner Diameter	76 mm / 3 in
Roll Outer Diameter	180 mm / 7.08 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*	ETSI : NXP UCODE 8 FCC : NXP UCODE 7
Memory configuration	Upto 128 bits
Write cycle endurance	100,000
Data Retention	Upto 20 years
Read range (2W ERP)**	ETSI : On Metal Center upto 5.5 m, On Metal Edge upto 9 m FCC : On Metal Center upto 5.5 m, On Metal Edge upto 8 m
Applicable surface materials	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)
Adhesive Service Temperature	-20°C to +85°C / -4°F to +185°F
Recommended Application Temperature	+10°C to +38°C / 50°F to +100.4°F
Water Resistance	IP67
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.



- 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

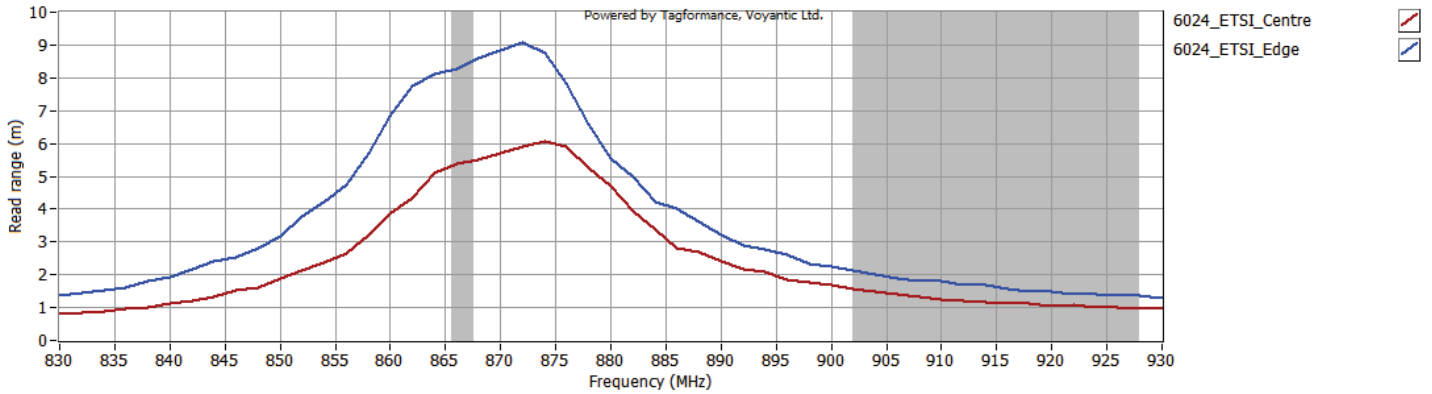
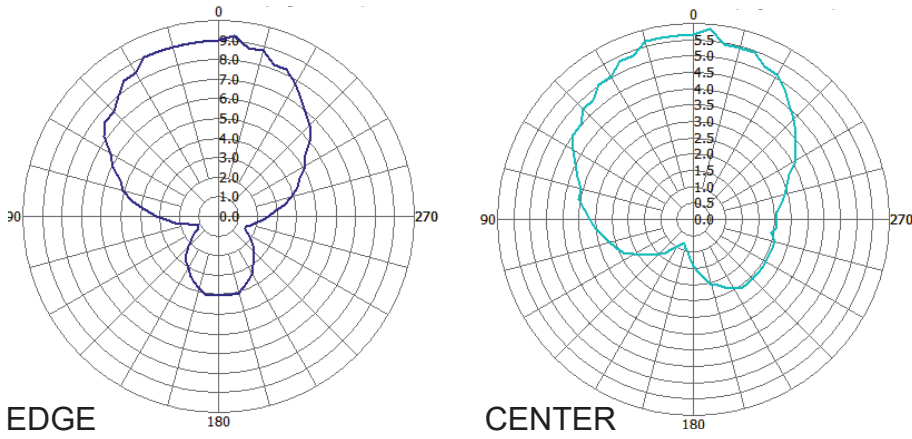
### Part Number

- RF.LI.TT.MOM.6024.ETSI
- RF.LI.TT.MOM.6024.FCC

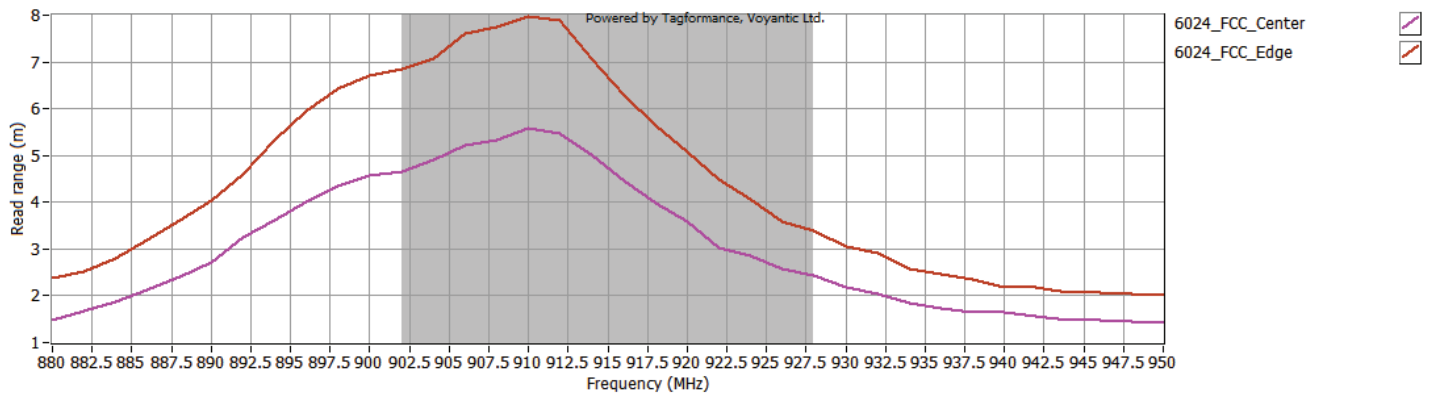
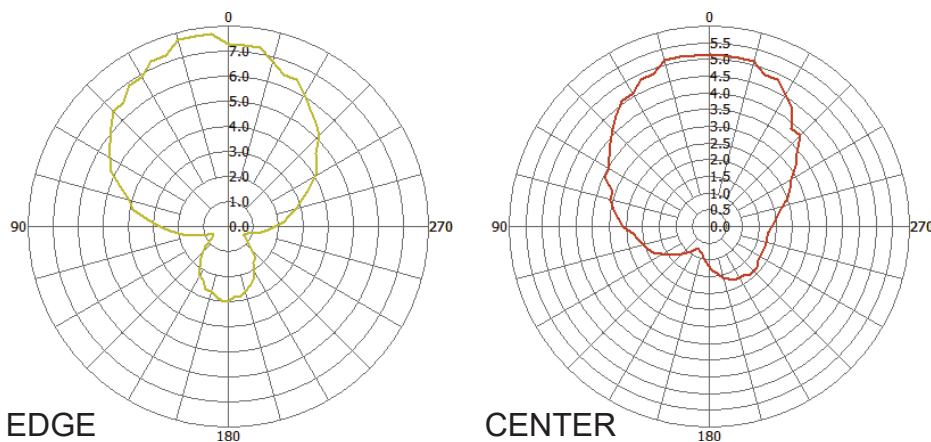
### Roll Sizes

- 500 Labels per Roll / 4 Rolls per Carton

## RADIATION PATTERN & READ RANGE GRAPH (ETSI)



## RADIATION PATTERN & READ RANGE GRAPH (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.



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