

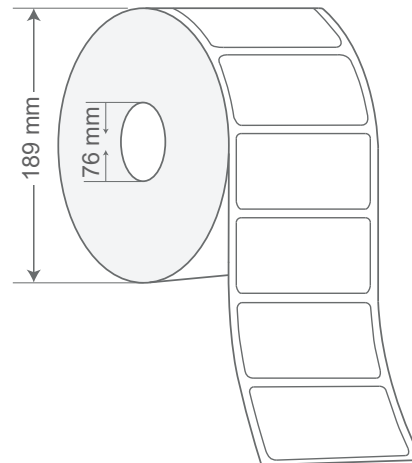


SIVA's AERIAL 6024 TP is a non-transferable tamper-proof label for non-metal applications demanding a small form factor and good read range. Supplied in roll form with a high performance permanent adhesive as finished label, it can be encoded and printed with typical RFID printers that are capable of printing labels. These labels feature a film face to print logos, product information, or scannable barcodes directly on the label.

TYPICAL APPLICATIONS

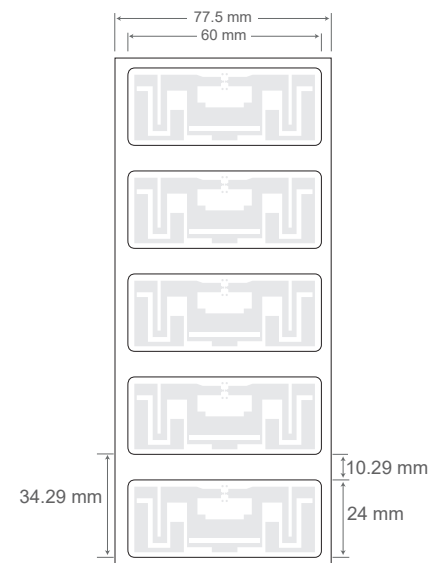
Only for non-metal surfaces

- Indoor Asset Management
- Healthcare
- Industrial
- Retail



PHYSICAL SPECIFICATION

Face Stock	Special Plastic film
Label Sizes	60 x 24 mm 2.36 x 0.94 in
Adhesive	High performance permanent adhesive with excellent bonding.
Weight	2.3 g
Delivery format	Roll form
Label Pitch	34.29 mm / 1.35 in
No. of Labels/ Reel	1000/pcs
Core inner diameter	76 mm / 3 in
Roll outer diameter	189 mm / 7.44 in



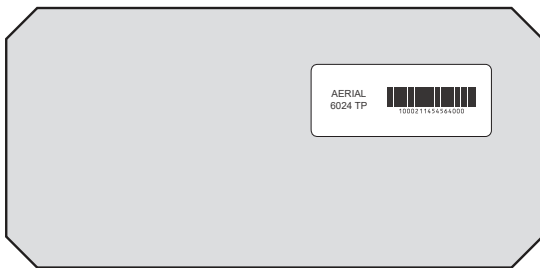
RF SPECIFICATION

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	Global 860-960 MHz
IC type*	NXP UCODE 9
Memory configuration	EPC Size 128 bit, 96 bit TID with 48 bit Unique serial number
Data Retention	Upto 20 years
Write cycle endurance	100,000
Read range (2W ERP)**	ETSI - Up to 4.5m / 14.76ft in free air, 11.5m / 37.72ft on Plastic, 2m / 6.56ft on Glass, 8m / 26.2467ft on cardboard FCC - Up to 10.5m / 34.44ft in free air, 10m / 32.80ft on Plastic, 6m / 19.68ft on Glass, 7.5m / 24.60ft on cardboard
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
Adhesive Service Temperature	-20°C to +85°C / -4°F to +185°F
Recommended Application Temperature	+10°C to +38°C
Water Resistance	IP67
Chemical Resistance	Resistant to chemical solvents and moisture
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

PERSONALIZATION OPTIONS

Pre-encoding

- Customer specific encoding of EPC

Customized Printing

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

ORDER INFORMATION

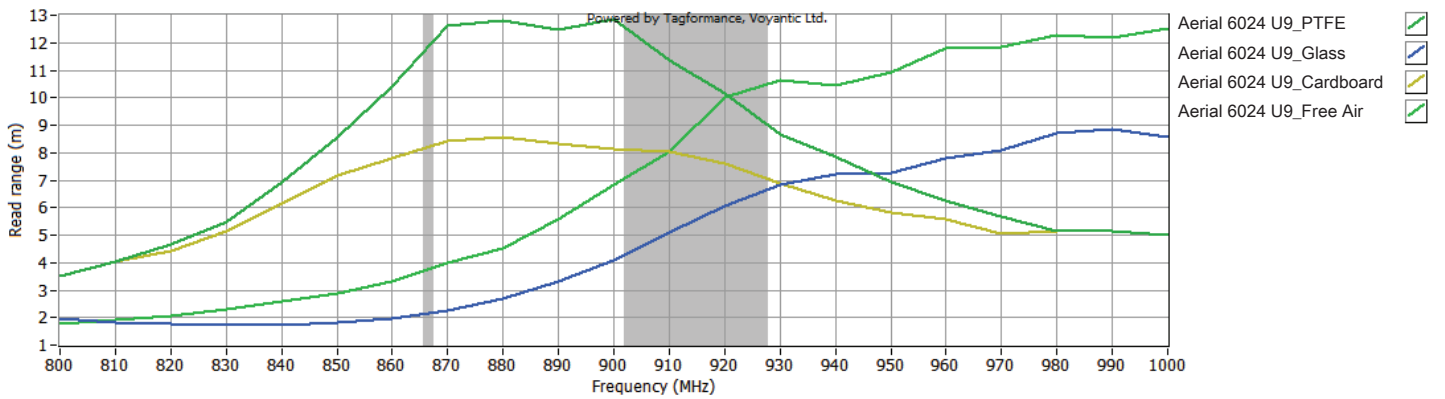
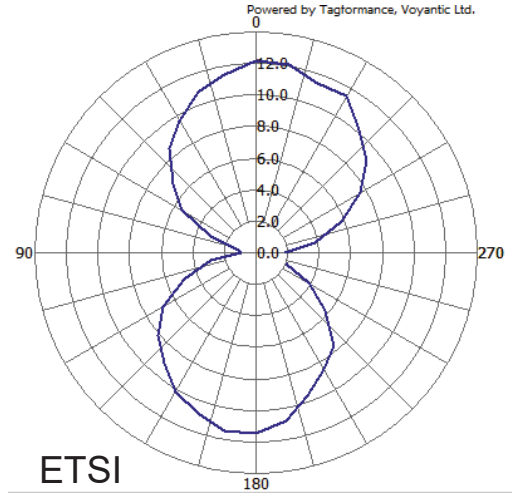
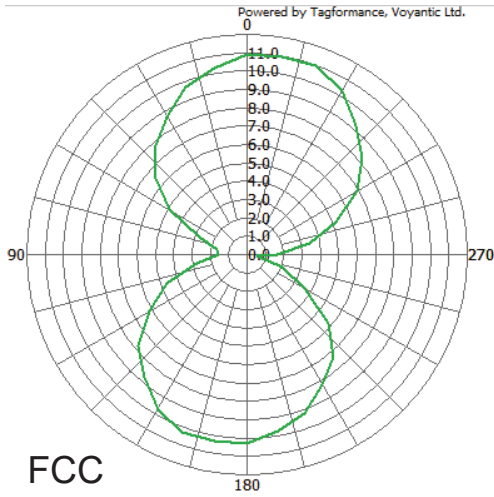
Part Number

- RF.Li.TT.AerialTP.6024.U9

Roll Sizes

- 1000 Labels per Roll / 4 Rolls per Carton

RADIATION PATTERN & READ RANGE GRAPH



* 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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