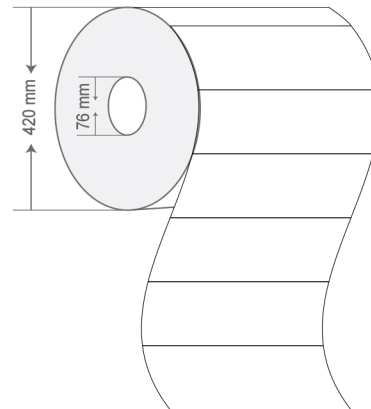


SIVA's RAIN(UHF) RFID foam transponders are ready to apply foam backed race timing tags on marathon bibs and are designed to ensure athletes receive the most accurate measurement of their timings while they race.

With capabilities of custom printing and encoding, these race timing foam tags are supplied in roll form. The tag houses a finely tuned antenna to counter the detuning effect produced due to its close proximity from the human body. The tags come in 3mm & 4mm foam thickness variants.

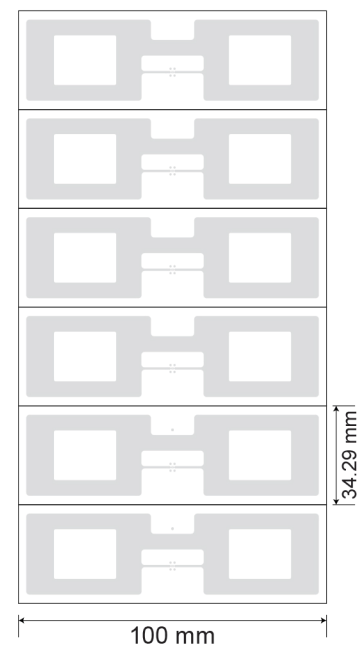
TYPICAL APPLICATIONS

- Marathons and Ultrathons
- Sprint Races



PHYSICAL SPECIFICATION

Face Stock	Foam
Label Sizes	100 x 34.29 x 3.0 mm / 4mm 3.94 x 1.35 x 0.11 in / 0.15 in
Adhesive	High performance permanent adhesive
Weight	1.167 gm
Delivery format	Roll form
No. of Labels/ Reel	1000 pcs
Label Pitch	34.29 mm / 1.35 in
Core inner diameter	76 mm / 3 in
Outer diameter	3mm Foam: 420 mm / 16.53 in



RF SPECIFICATION

Mode of Operation	Passive
Device type	Class 1 Gen 2 Passive UHF RFID Transponder
Air interface protocol	EPC global GS1 UHF Gen2v2 ISO/IEC 18000-63
Operational frequency	Global 860 - 960 MHz
IC type*	IMPINJ MONZA 730
Memory configuration	EPC Size 128 Bits
Write cycle endurance	10000 cycle
Data Retention	Upto 10 years
Applicable Surface Materials	On Number Bibs
Read range (2W ERP)**	For 3mm Foam: ETSI - Upto 15 m / 49.21 ft & FCC - Upto 16 m / 52.49 ft

ENVIRONMENTAL RESISTANCE

Operating Temperature	-40°C to +85°C / -40°F to +185°F
Withstands Exposure To	95% humidity, 60°C × 100 h, 50% humidity, 80°C × 100 h
Peak Temperature	+260°C for 1 min, (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	IP68, tested for 5 hours in 1m deep water
Chemical Resistance	Resistant to chemical solvents and moisture
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.
- Avoid touching the backside of the label while mounting it.

PERSONALIZATION OPTIONS

Pre-encoding

- Customer specific encoding of EPC or user memory
- Locking permanently or with password

Customized Printing

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

ORDER INFORMATION

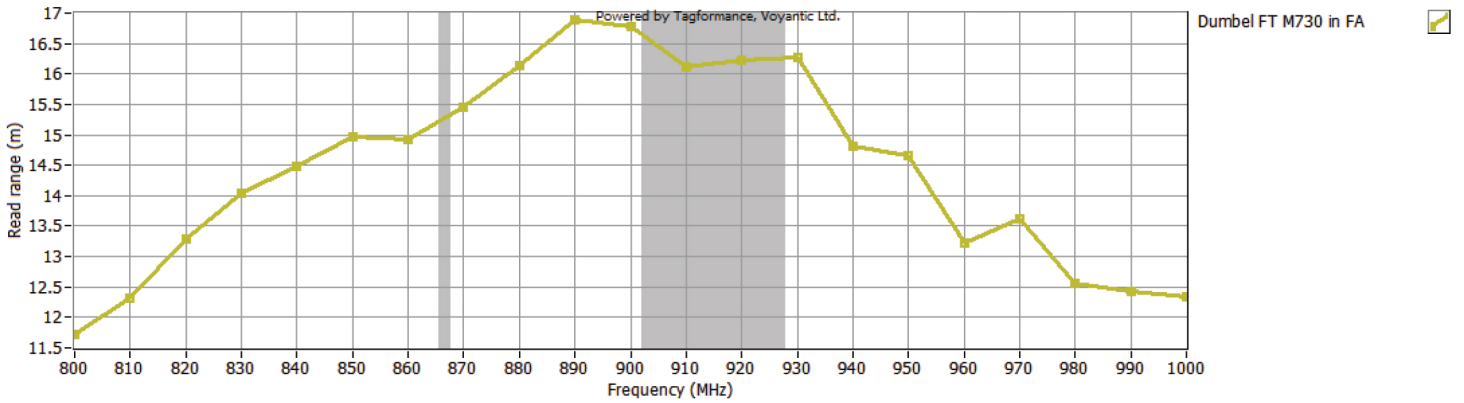
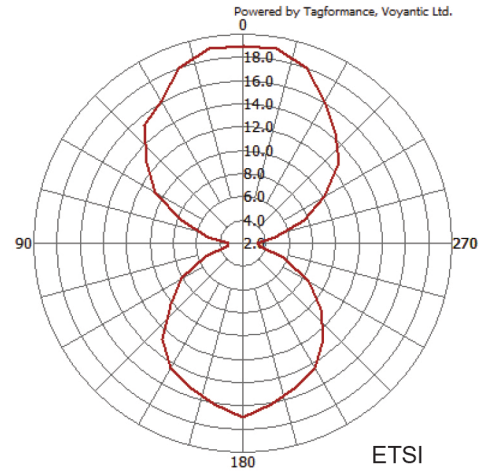
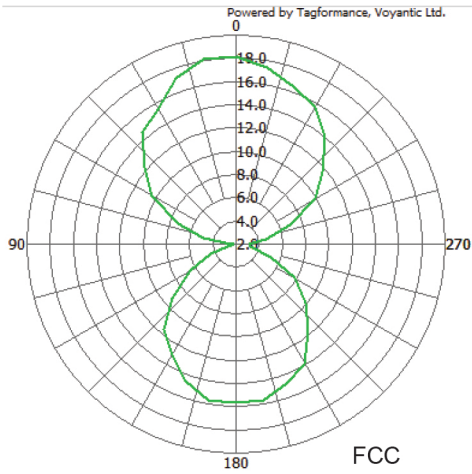
Part Number

- RF.Li.TT.3FT.Dumbel.M730.NPT

Roll Sizes

- 1000 Tags per roll / 1 Rolls per carton

RADIATION PATTERN AND 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.



Version : 280123.01

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