

**ABOUT TIMES-7**

We are a high-tech company specializing in the design and manufacture of RAIN (UHF) RFID antennas. Founded in 2006, Times-7 has developed the largest portfolio of fixed RAIN RFID reader antennas. Based in Lower Hutt, New Zealand we export all over the world through an authorized network.

Times-7 antennas are famous for their quality and performance.

In addition to our world-class products and in-depth expertise, our customers appreciate Times-7's customer service and technical support.

We are responsive in supporting a large global customer base and ensuring the success of our customer's implementations.

Times-7 Research Ltd  
10 Te Puni Street  
Lower Hutt 5012  
New Zealand

NEW ZEALAND  
P: +64 4 974 6566

USA/CANADA  
P: +1 408 769 5025

E: [sales@times-7.com](mailto:sales@times-7.com)

[www.times-7.com](http://www.times-7.com)



The A6590L Ground Antenna

Ultra-low profile linear polarised UHF ground antenna

Just 8 mm / 0.3 in. thick

Typical applications:  
Conference attendee & people tracking, retail marketing, race & event timing

Part of Times-7's exclusively unique range of ground antennas the A6590L is optimized for RFID deployments involving moving products, assets and people. From conference attendee & people tracking, retail presence aware / loyalty marketing, & race timing, the A6590L is ideal for situations where traditional side antennas are unsuitable or not optimized for the application.

At just 8 mm / 0.3 in. thick, the durable, high performance A6590L is uniquely capable of lying flat on the ground within a doorway sized footprint and can withstand payloads of over 200 kg (440 lb).

Order Information

**Ordering Information (please quote both product code & part no.)**

Product Code	Band	Part No.
A6590L	ETSI 864-868 MHz	71234
A6590L	FCC 902-928 MHz	71211
Cable Accessories	Cable Type	Part No.
Cable 2 m, SMA to RPTNC	LMR 195 / 240 / 400	71436 / 71782 / 72042
Cable 4 m, SMA to RPTNC	LMR 240 / 400	71784 / 72043
Cable 6 m, SMA to RPTNC	LMR 240 / 400	71904 / 72044
Cable 8 m, SMA to RPTNC	LMR 240 / 400	71788 / 72045

\*Built in New Zealand. ROHS & CE compliant.

View the Times-7 Cable Accessory datasheet [here](#)

## Specifications

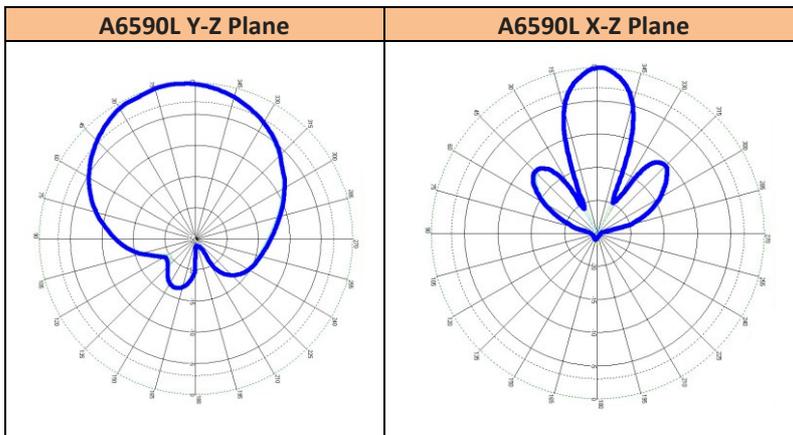
### Physical / Environmental Specifications

Dimensions (L x W x D):	910 mm x 300 mm x 8 mm 3' x 1' x 0.3"
Weight:	2 kg / 4.4 lbs.
Radome Material:	Fire retardant ABS
Environmental Rating:	IP65
Operating / Storage Temperature:	-20° to +55°C / -30° to +65°C -4° to +131°F / -22° to +149°F
Connector type / position:	SMA female side fly lead (300 mm / 1 ft.) or 6ft / 2m cable to RP-TNC Plug

## Electrical Specifications

Frequency Range:	864-868 MHz / 902-928 MHz
Polarization:	Linear
Far-field Gain:	10 dBi typical
Far-field 3 dB beamwidth:	72° in XZ, 23° in YZ
VSWR	1.4 typical
Front to back ratio:	20 dB
Nominal Impedance:	50 Ω
Anti-static protection:	Yes
Maximum Input Power:	6 W

## Radiation Patterns



## Azimuth Planes



## Installation Instructions

- Ensure that only finger tightness is used for the SMA connector. Use of tools to tighten the connector will apply excessive force and will damage the connector.
- Avoid any load or bending force from the cable on the connector.

## Payload Information

This ground antenna is designed to support moderate loads, such as hand trolleys and carts with rubber wheels, runners, bicyclists, and occasional vehicular traffic with pneumatic tires, etc. Care must be taken to ensure the antenna is installed on a smooth, hard, flat surface. Ensure that the antenna surface is not damaged from sharp objects such as steel-edged wheels, stone chips or glass fragments, etc. Any point load must not exceed 100 psi (7 kg/ cm<sup>2</sup>) and the maximum distributed load on the mat should not exceed 1100lb (500kg).

## Applications

### Conference Attendee / People Tracking

Tracking attendees at conferences, trade shows, and other business events using the A6590L antenna can be a great way to obtain valuable data. The A6090L is a high-performance UHF RFID ground antenna, perfect for people tracking applications.



### Race & Event Timing

The A6090L RFID antenna is suitable for use in a variety of indoor and outdoor environments that require an ultra-low profile, high-performance antenna that can be concealed under a mat or other covering. Perfect for tracking race times at sporting events.



### OUR GLOBAL NETWORK

Constantly increasing market reach and influence in the global RFID industry, Times-7's international support spans The Americas, Europe, and Asia Pacific regions through our distributor, authorized reseller and integrated solutions provider network.

Times-7 Research Ltd  
10 Te Puni Street  
Lower Hutt 5012  
New Zealand

NEW ZEALAND  
P: +64 4 974 6566

USA/CANADA  
P: +1 858 225 2214

E: [info@times-7.com](mailto:info@times-7.com)

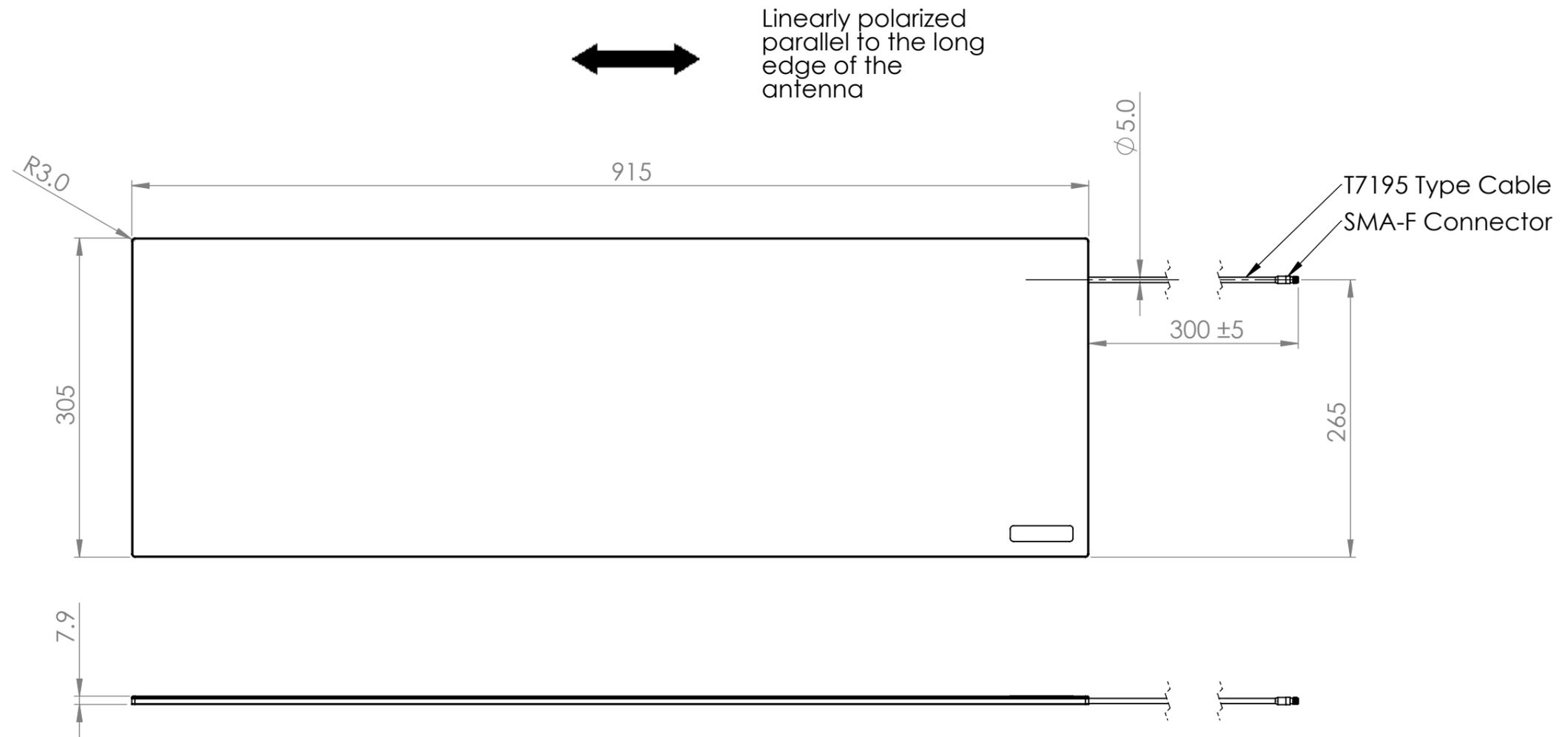
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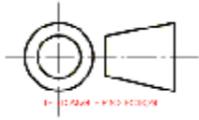
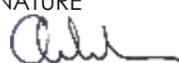
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Datasheet v1.7



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DRAWN C Wilson	SIGNATURE 	DATE 07/06/2019	SIZE <b>A3</b>	PART NO. 71234 (ETSI) , 71211 (FCC)	REV <b>B</b>		DO NOT SCALE DRAWING SHEET 1 OF 1
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