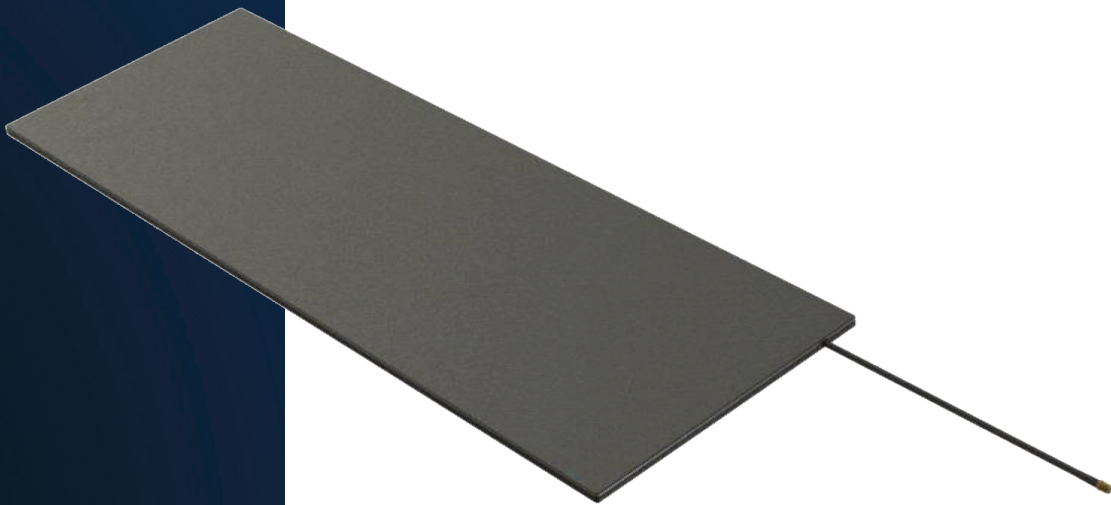
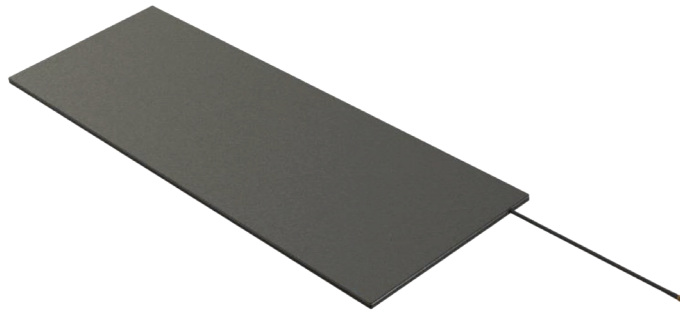

C3855L

SlimLine RAIN (UHF) RFID CP
Ground Antenna



C3855L

SlimLine RAIN (UHF) RFID CP Ground Antenna



Benefits:

- Ultra-low profile circularly polarised UHF ground antenna
- Just 8 mm / 0.3 in. thick
- Powerful 9 dBic gain
- Typical applications: Conference attendee and people tracking, retail marketing.

Applications:

- Conference Attendee / People Tracking

Product overview

Exclusive unique range of ground antennas the C3855L is optimized for RFID deployments involving moving products, assets and people. From conference attendee and people tracking, retail presence aware / loyalty marketing and race timing, the C3855L is ideal for applications where traditional side antennas are unsuitable or not optimized for the application. At just 8 mm / 0.3 in. thick, the durable, high performance C3855L is uniquely capable of lying flat on the ground within a doorway sized footprint.

Order Information

*Antenna Product Code	Band	Part No.
C3855L	ETSI 865-868 MHz	71324
C3855L	FCC 902-928 MHz	71325
Cable Accessories Product Code	Cable Type	Part No.
Cable 2 m, SMA to RPTNC	T7 195 / 240 / 400	71436 / 71782 / 72042
Cable 4 m, SMA to RPTNC	T7 240 / 400	71784 / 72043
Cable 6 m, SMA to RPTNC	T7 240 / 400	71904 / 72044
Cable 8 m, SMA to RPTNC	T7 240 / 400	71788 / 72045

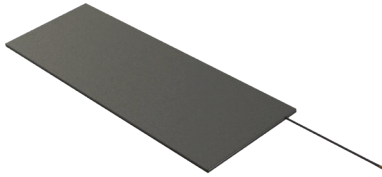
*Built in New Zealand. ROHS & CE compliant.



C3855L

SlimLine RAIN (UHF) RFID CP Ground Antenna

Specifications

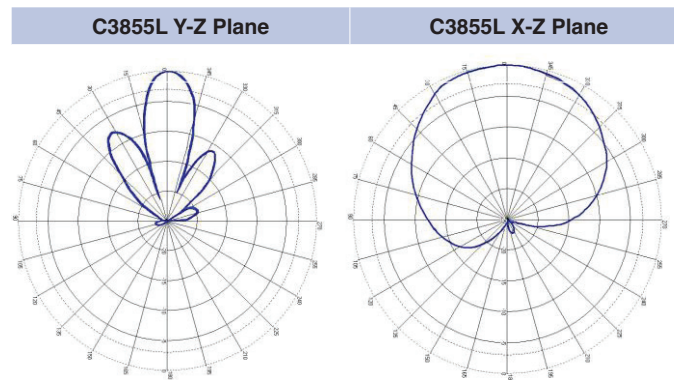


Dimensions	915 mm x 305 mm x 8 mm
Length (x) x Width (y) x Depth (z)	36.02" x 12.00" x 0.31"
Boxed unit dimensions:	935 mm x 315 mm x 25mm
	36.81" x 12.40" x 0.98"
Weight:	Net: 2.4 kg / 5.29 lbs. Gross: 2.8 kg / 6.17 lbs.
Radome Material:	Fire retardant ABS
Environmental Rating:	IP65
Operating / Storage 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

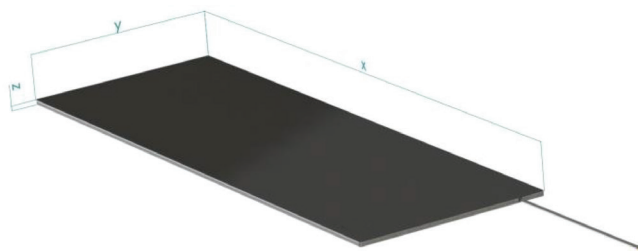
Electrical Specifications

Frequency Range:	865-868 MHz / 902-928 MHz
Polarization:	RHCP (Right Hand Circular Polarised)
Far-field Gain:	9 dBiC typical
Far-field 3 dB beamwidth: *	20° in xz-plane, 80° in yz-plane
VSWR	1.4 typical
Front to back ratio:	24 dB
Axial Ratio:	2 dB typical
Nominal impedance:	50 Ω
Anti-static protection:	Yes, DC grounded
Antenna detection	10 K Ω resistance
Maximum Input Power:	3 W

Radiation Patterns



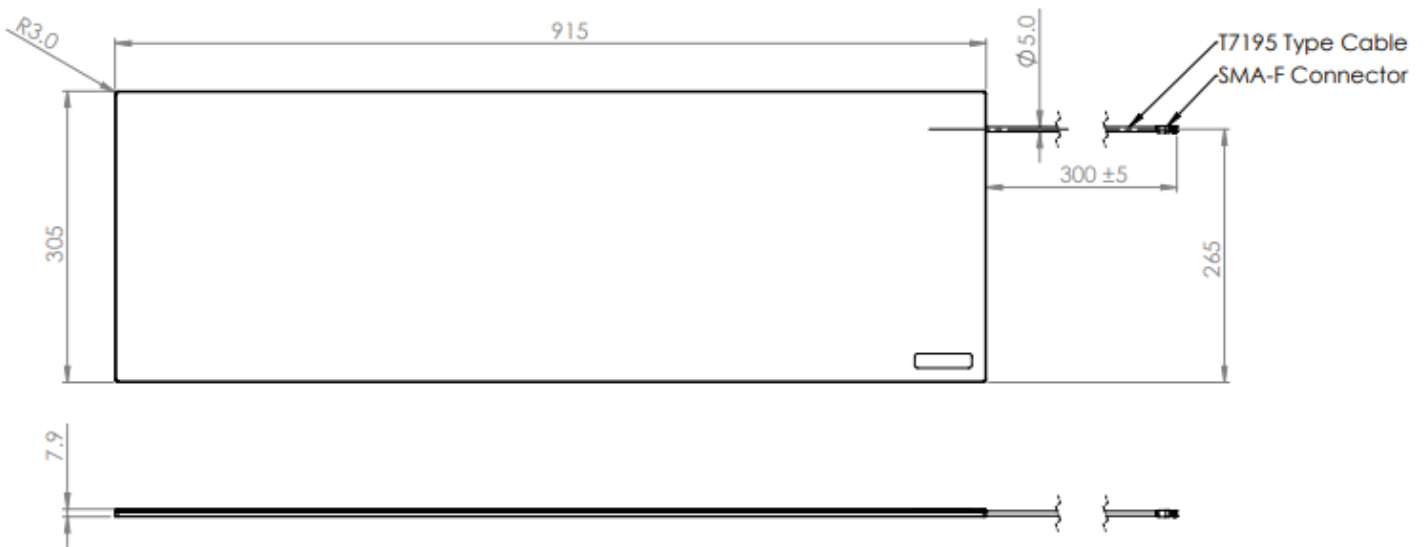
Radiation Patterns



C3855L

SlimLine RAIN (UHF) RFID CP Ground Antenna

Mechanical Drawing for the C3855L



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/ cm²) 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 C3855L antenna can be a great way to obtain valuable data. The C3855L is a high-performance UHF RFID ground antenna, perfect for people tracking applications.

Race & Event Timing

The C3855L 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.



RF DATA SYSTEMS develop, manufacture, integrate and install high quality RFID solutions

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