



**NLM Series RFID  
Patch Antenna**

## Nearfield Loop Antenna RFID

- Single model covers RFID systems at both 868 MHz and 915 MHz
- Offers maximum power density in close proximity to the antenna
- Read range of up to 3 feet
- Tape mounting standard, optional pipe or wall mounting

Mobile Mark offers a Nearfield Loop antenna design that covers RFID systems at both 868 MHz and 915 MHz.

This style antenna is ideal for tracking items that are removed and replaced in a different location such as a retail display or production conveyor belt. The low profile and reliable performance makes it an effective choice.

This style antenna offers maximum power density in close proximity to the antenna. The read range for this antenna is tag dependent but is typically up to 3 feet. Maximum power input for the antenna is 2 watts.

Nearfield Loop Antennas are very directional with superior isolation. Specifically, the characteristics of the antenna provide high forward directionality with extreme isolation adjacent to the antenna. The result is better performance and fewer instances of misread tags.

The antenna measures 4 1/2 inches (11.4 cm) in diameter and less than 1 inch (2.5 cm) in depth. It is typically supplied with a white ASA plastic radome and with 1-foot of RG-58 cable and a SMA plug connector. Connectors may vary per customer request.

The standard installation uses double sided 3M heavy bonding tape. For more industrial settings, both pipe mount and wall mount kits are available.

The Wall Mount option uses an adjustable swivel mount anchored into the wall with 2 screws. Adjustment is available in both the vertical and the horizontal planes. The antenna can be adjusted up or down by up to 45-degrees. It can also be adjusted from side to side, allowing the antenna to be aimed for optimum adjustment.

The NLM Series antenna is just one of several Mobile Mark RFID antennas. Contact your sales representative for more detail on selecting the right antenna for each application.

The NLM Series has a DC shorted front end and is compatible with antenna sensing circuits found in the current generation of RFID readers.

If your reader has a feature that requires a 10K ohm resistor, the NLM antenna can be special ordered with this feature.

Model #	Mounting
NLM-915-1C-WHT-12	Tape
NLM-915-PM-1C-WHT-12	Pipe
NLM-915-WM-1C-WHT-12	Wall

Note: The NLM-915 Series covers both EU 868 MHz systems and US 915 MHz systems.

Specifications			
Frequency:		Cable:	White RG-58, 1 ft (30.5 cm)
US RFID	902-928 MHz	Connector:	SMA Plug (Male)
EU RFID	865-870 MHz		
Read range:	up to 3 feet/1 meter (tag dependent)	Mounting:	Tape mounting standard, optional pipe or wall mounting
Impedance:	50 ohms		
VSWR:	2:1 max over range	Weight:	6 oz. (170 grams)
Maximum Power:	2 Watts	Operating Temp:	-40 to +85° C
Case:	4 1/2" Diam. (11.4 mm diam)		
Case Material:	UV Resistant ASA		
Case Color:	White		