

Antenna Specification

FCC Regulatory Certification
Project Name : ESR60700

James Chiu, Engineering
Date: 2026-07-27

1. Document Information

- **Project Name** : ESR60700
- **Model** : EZ08

2. Antenna Supplier Information

- **Supplier Name** : Nutek Corporation
- **Supplier Address** : No.167, Lane 235, Bauchiau Rd., Xindian District, New Taipei City

3. Antenna Information

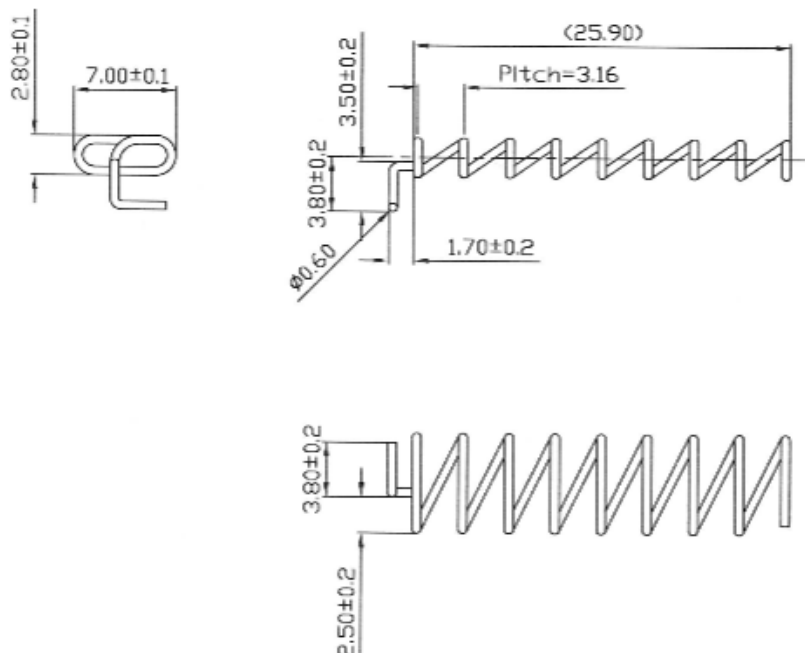
- **Antenna Type**: Helical Antenna
- **Device Operating Frequency Range** : 903.966 ~ 917.196 MHz
- **Mid-Channel Test Frequency** : 910.446 MHz
- **Maximum Measured Peak Gain** : -3.45 dBi
- **Reference Impedance** : 50 Ohm

4. Antenna Dimensions

This is a helical antenna, as shown in the mechanical drawing below.

All dimensions are in millimeters.

- Spring Diameter: 0.6 mm
- Pitch: 3.16 mm
- Number of Turns: 8.5T
- Helix Winding Direction: Right-Handed



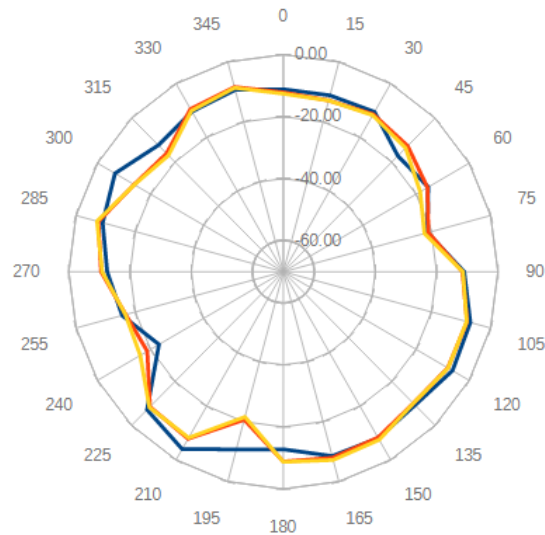
5. Purpose

This document describes the mechanical specifications, maximum measured antenna gain, and radiation patterns of the helical antenna installed in Model EZ08 for FCC certification.

6. Radiation Performance – Horizontal Plane

Test Frequencies: 903.966 MHz / 910.446 MHz / 917.196 MHz

Frequency (MHz)	Max Gain (dBi)	Min Gain (dBi)	Avg Gain (dBi)
903.966	-3.98	-23.15	-11.25
910.446	-7.53	-21.01	-11.94
917.196	-7.06	-22.34	-12.11



7. Radiation Performance – Vertical Plane

Test Frequencies: 903.966 MHz / 910.446 MHz / 917.196 MHz

Frequency (MHz)	Max Gain (dBi)	Min Gain (dBi)	Avg Gain (dBi)
903.966	-6.81	-19.78	-10.86
910.446	-3.45	-20.59	-11.62
917.196	-3.66	-18.21	-11.53

