

# Shenzhen Kinghelm Electronics Co., Ltd

## SPECIFICATION OF APPROVAL

CUSTOMER: \_\_\_\_\_

DESCRIPTION: 5M Iron Antenna

PART NO: KH-TV-K512-XP

### SIGNATURE

Approved	Engineering
Shenzhen Kinghelm Electronics Co., Ltd	Technology Dept
Date	

### CUSTOMER APPROVAL

Confirmed	Engineering
<input type="checkbox"/> Pass <input type="checkbox"/> Fail	
Date	

## **Product Description:**

The antenna has the characteristics of high gain, stable signal, good standing wave ratio performance and high power. It can effectively receive and transmit aerial signals and it is a good fixed antenna.

## **Connector:**

F Connector Male To Male Pin

## **Matching Cable:**

RG59 Line

## **Product Image:**



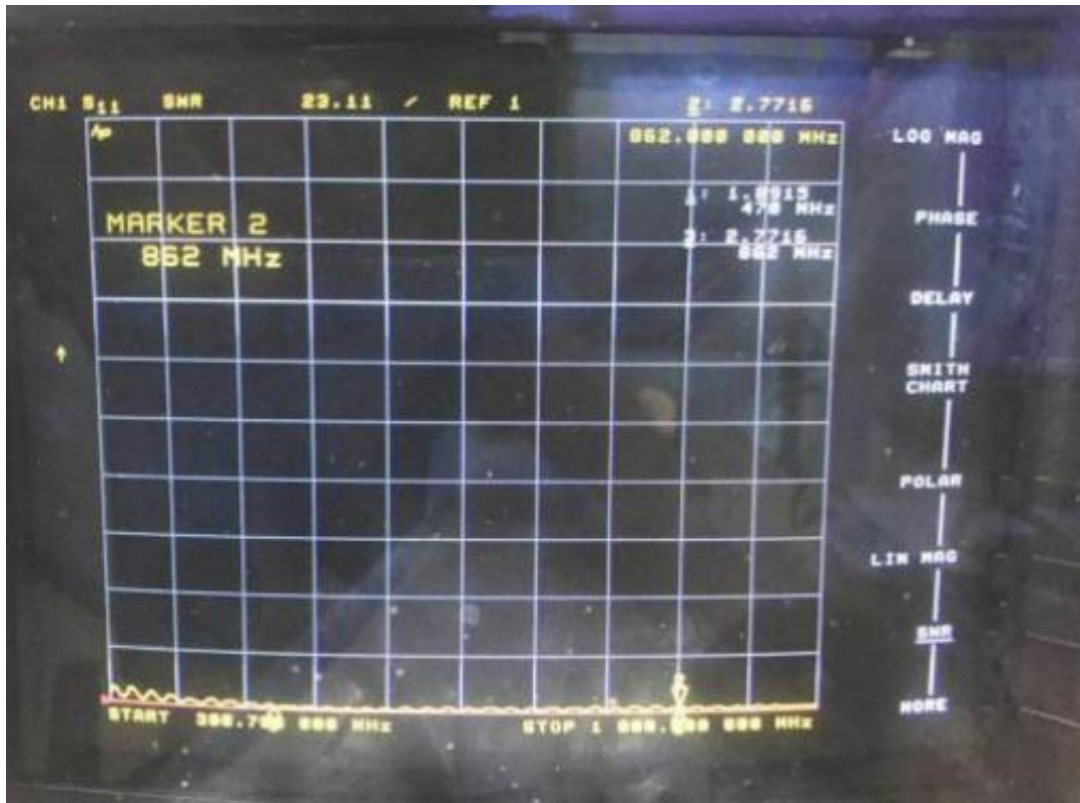
## Specification

Model	KH-F-TZ-59-0150A
Main Technical Specifications	
RF Parameters	
Frequency Range (MHz)	470-862
V.S.W.R	≤2.5
Gain (dBi)	5
Input Impedance (Ω)	75
Max Input Power(W)	50
Polarization Type	Vertical
Mechanical Specifications	
Connector Type	F
Cable	RG174
Cable Length (mm)	5000 ± 20
Antenna Length (mm)	200 ± 5
Mounting	Magnetic Base
Color	Black
Diameter (mm)	62
Environmental Parameter	
Operation Temperature (°C)	-40~70
Store Temperature (°C)	-45~75

## Mechanical Properties

1	Bending Test	Put load 120g to 30cm cable from the end of the connector, fixed joints, swaying test at an angle of 60 degrees, test features after 1000 times	After 1000 times test no visible damage
2	Stren Test	Put 15 pounds static load to the end of the cable continue 1 minute	After test, no visible damage
3	Pulling Force	Pulling force testing between connector and cable	After test, no visible damage on 5kg pulling force
4	Vibration Test	The x-axis direction for 120 minutes, and the y-axis direction 120 minutes, the z-axis direction 240 minutes as vibration testing of 1.1mm amplitude and 33.30hz/sec of frequency	After test, no visible damage

## Stationary Wave Pattern



## Antenna Test Equipment

Measurement of the antenna parameters:

1. Discussion: Network analysis
2. Calibration: The correction of the monitor is corrected by one port through the OSL calibration kit
3. Measurement: Connecting reception measurement antenna to network analysis S11



Antenna Measuring Network Analyzer