



GUANGDONG FEILUN TECHNOLOGY INDUSTRIAL CO., LTD.

FCC ID: Z6QFC09527A

RC Monster Car

Model: FL2014

Transmitter

Report No.: GZHH00146938-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-13]

Prepared and Checked by:

Approved by:

Sign on file

Jimmy Wen
Assisant Engineer

Billy Li
Supervisor
Date: March 31, 2014

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TRF No.: FCC 15C_TX_b

INTERTEK TESTING SERVICES

GENERAL INFORMATION

GUANGDONG FEILUN TECHNOLOGY INDUSTRIAL CO., LTD..

MODEL: FL2014

FCC ID: Z6QFC09527A

| | |
|---------------------------|--|
| Grantee: | GUANGDONG FEILUN TECHNOLOGY INDUSTRIAL CO., LTD. |
| Grantee Address: | Haisheng Road, Laimei Industrial District, Fengxiang Chenghai, Shantou, Guangdong, China |
| Contact Person: | Shaona Cai |
| Tel: | 86-0754-85717755 |
| Manufacturer: | GUANGDONG FEILUN TECHNOLOGY INDUSTRIAL CO., LTD. |
| Manufacturer Address: | Haisheng Road, Laimei Industrial District, Fengxiang Chenghai, Shantou, Guangdong, China |
| Model: | FL2014 |
| Type of EUT: | Transmitter |
| Description of EUT: | RC Monster Car |
| Serial Number: | N/A |
| FCC ID : | Z6QFC09527A |
| Date of Sample Submitted: | January 28, 2014 |
| Date of Test: | February 21, 2014 |
| Report No.: | GZHH00146938-001 |
| Report Date: | March 31, 2014 |
| Environmental Conditions: | Temperature: +10 to 40°C Humidity: 10 to 90% |

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SUMMARY OF TEST RESULT

GUANGDONG FEILUN TECHNOLOGY INDUSTRIAL CO., LTD.

MODEL: FL2014

FCC ID: Z6QFC09527A

| TEST SPECIFICATION | REFERENCE | RESULTS |
|--|-------------------------------|---------|
| Maximum Peak Output Power | 15.247(b), (c) / RSS-210 A8.4 | N/A |
| Hopping Channel Carrier Frequencies Separation | 15.247(e) / RSS-210 A8.1 | N/A |
| 20dB Bandwidth of the Hopping Channel | 15.247(a) / RSS-210 A8.1 | N/A |
| Number of Hopping Frequencies | 15.247(e) / RSS-210 A8.1 | N/A |
| Average Time of Occupancy of Hopping Frequency | 15.247(e) / RSS-210 A8.1 | N/A |
| Antenn Conducted Spurious Emissions | 15.247(d) / RSS-210 A8.5 | N/A |
| Radiated Spurious Emissions | 15.247(d) / RSS-210 A8.5 | N/A |
| RF Exposure Compliance | 15.247(i) / RSS-Gen 5.5 | N/A |
| Transmitter Power Line Conducted Emissions | 15.207 / RSS-Gen 7.2.2 | N/A |
| Transmitter Field Strength | 15.227 / RSS-310 3.8 | Pass |
| Transmitter Field Strength | 15.229 / RSS-210 A2.7 | N/A |
| Transmitter Field Strength, Bandwidth and Timing Requirement | 15.231(a) / RSS-210 A1.1.1 | N/A |
| Transmitter Field Strength, Bandwidth and Timing Requirement | 15.231(e) / RSS-210 A1.1.5 | N/A |
| Transmitter Field Strength and Bandwidth Requirement | 15.239 / RSS-210 A2.8 | N/A |
| Transmitter Field Strength and Bandwidth Requirement | 15.249 / RSS-210 A2.9 | N/A |
| Transmitter Field Strength and Bandwidth Requirement | 15.235 / RSS-310 3.9 | N/A |
| Receiver / Digital Device Radiated Emissions | 15.109 / ICES-003 | N/A |
| Digital Device Conducted Emissions | 15.107 / ICES-003 | N/A |

- Note: 1. The EUT uses two Integral antenna and one telescope antenna with unique antenna connector which, in accordance to section 15.203, is considered sufficient to comply with the provisions of this section.
2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over expected variations in temperature and supply voltage were considered.

Report No.: GZHH00146938-001

FCC ID: Z6QFC09527A

TRF No.: FCC 15C_TX_b

INTERTEK TESTING SERVICES

Table of Contents

| | | |
|-----|---|----|
| 1.0 | <u>General Description</u> | 1 |
| 1.1 | Product Description | 1 |
| 1.2 | Related Submittal(s) Grants..... | 1 |
| 1.3 | Test Methodology | 1 |
| 1.4 | Test Facility | 1 |
| 2.0 | <u>System Test Configuration</u> | 2 |
| 2.1 | Justification | 2 |
| 2.2 | EUT Exercising Software..... | 2 |
| 2.3 | Special Accessories | 2 |
| 2.4 | Equipment Modification | 2 |
| 2.5 | Measurement Uncertainty..... | 3 |
| 2.6 | Support Equipment List and Description | 3 |
| 3.0 | <u>Emission Results</u> | 4 |
| 3.1 | Field Strength Calculation..... | 4 |
| 3.2 | Radiated Emission Configuration Photograph..... | 5 |
| 3.3 | Radiated Emission Data | 5 |
| 4.0 | <u>Equipment Photographs</u> | 9 |
| 5.0 | <u>Product Labelling</u> | 9 |
| 6.0 | <u>Technical Specifications</u> | 9 |
| 7.0 | <u>Instruction Manual</u> | 9 |
| 8.0 | <u>Miscellaneous Information</u> | 9 |
| 8.1 | Measured Bandwidth..... | 10 |
| 8.2 | Discussion Pulse Desensitivity | 11 |
| 8.3 | Calculation of Average Factor..... | 11 |
| 8.4 | Emissions Test Procedures | 12 |
| 9.0 | <u>Equipment List</u> | 13 |

INTERTEK TESTING SERVICES

1.0 General Description

1.1 Product Description

The equipment under test (EUT) is a transmitter for a RC Monster Car operating at 27.145 MHz which is controlled by a crystal. The EUT is powered by a 9.0Vdc 6F22 battery.

The EUT have two antenna types, all the electrical aspect are same.

Antenna 1: telescope antenna with unique antenna connector

Antenna 2: Integral antenna with plastic enclosure

Antenna 3: Integral antenna with plastic enclosure

Type of modulation: Pulse modulation

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

1.2 Related Submittal(s) Grants

The receiver for this transmitter is exempted from the Part 15 technical rules per 15.101(b).

1.3 Test Methodology

Radiated emission measurements was performed according to the procedures in ANSI C63.4 (2009). Radiated Emission measurement was performed in a Semi-anechoic chamber. Preliminary scans were performed in the Semi-anechoic chamber only to determine worst case modes. For each scan, the procedure for maximizing emissions in Appendices D and E were followed. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

1.4 Test Facility

The Semi-anechoic chamber facility used to collect the radiated data is Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch and located at 6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: 242492).

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2.0 System Test Configuration

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2009).

The EUT was powered by a new 9.0Vdc 6F22 battery during test.

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emission at and above 30 MHz, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data report in Exhibit 3.0.

The unit was operated standalone and placed in the centre of the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it can transmit the RF signal continuously.

2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

2.4 Equipment Modification

Any modifications installed previous to testing by GUANGDONG FEILUN TECHNOLOGY INDUSTRIAL CO., LTD. will be incorporated in each production model sold/leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd Kejiyuan Branch.

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2.5 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

2.6 Support Equipment List and Description

N/A.

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3.0 Emission Results

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG - AV$$

where FS = Field Strength in dB μ V/m
 RA = Receiver Amplitude (including preamplifier) in dB μ V
 CF = Cable Attenuation Factor in dB
 AF = Antenna Factor in dB
 AG = Amplifier Gain in dB
 AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where FS = Field Strength in dB μ V/m
 $RR = RA - AG - AV$ in dB μ V
 $LF = CF + AF$ in dB

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 27 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

| | |
|---------------------------------|------------------------|
| $RA = 52.0$ dB μ V/m | |
| $AF = 7.4$ dB | $RR = 18.0$ dB μ V |
| $CF = 1.6$ dB | $LF = 9.0$ dB |
| $AG = 29.0$ dB | |
| $AV = 5.0$ dB | |
| $FS = RR + LF$ | |
| $FS = 18 + 9 = 27$ dB μ V/m | |

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(27 \text{ dB}\mu\text{V/m})/20] = 22.4 \mu\text{V/m}$$

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3.2 Radiated Emission Configuration Photograph

Worst Case Radiated Emission at 54.292 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 5.2 dB

INTERTEK TESTING SERVICES

Applicant: GUANGDONG FEILUN TECHNOLOGY INDUSTRIAL CO., LTD..

Date of test: February 25, 2014

Model: FL2014

Test Mode: Transmit

Antenna 1: telescope antenna with unique antenna connector (Worst)

Table 1

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Average Factor (-dB) | Net at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|----------------------|--------------------------|----------------------------|-------------|
| Vertical | 27.146 | 33.1 | 0.0 | 18.4 | 5.0 | 47.5 | 80.0 | -32.5 |
| Vertical | 54.292 | 46.2 | 20.0 | 8.6 | -- | 34.8 | 40.0 | -5.2 |
| Vertical | 81.438 | 34.1 | 20.0 | 8.1 | -- | 22.2 | 40.0 | -17.8 |
| Vertical | 108.584 | 32.7 | 20.0 | 8.3 | -- | 21.0 | 43.5 | -22.5 |
| Vertical | 162.876 | 29.0 | 20.0 | 8.5 | -- | 17.5 | 43.5 | -26.0 |
| Vertical | 190.022 | 28.5 | 20.0 | 7.6 | -- | 16.1 | 43.5 | -27.4 |
| Vertical | 271.460 | 30.6 | 20.0 | 8.4 | -- | 19.0 | 46.0 | -27.0 |

NOTES: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative sign in the column shows value below limit.

4. Loop antenna is used for the emissions below 30 MHz.

Report No.: GZHH00146938-001

FCC ID: Z6QFC09527A

TRF No.: FCC 15C_TX_b

INTERTEK TESTING SERVICES

Applicant: GUANGDONG FEILUN TECHNOLOGY INDUSTRIAL CO., LTD..

Date of test: February 25, 2014

Model: FL2014

Test Mode: Transmit

Antenna 2: Integral antenna with plastic enclosure

Table 1

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre- Amp Gain (dB) | Antenna Factor (dB) | Average Factor (-dB) | Net at 3m (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) |
|--------------|--------------------|-------------------|-----------------------------|---------------------------|----------------------------|--------------------------|----------------------------|----------------|
| Vertical | 27.146 | 32.7 | 0.0 | 18.4 | 5.0 | 47.1 | 80.0 | -32.9 |
| Vertical | 54.292 | 45.6 | 20.0 | 8.6 | -- | 34.2 | 40.0 | -5.8 |
| Vertical | 81.438 | 34.9 | 20.0 | 8.1 | -- | 23.0 | 40.0 | -17.0 |
| Vertical | 108.584 | 33.8 | 20.0 | 8.3 | -- | 22.1 | 43.5 | -21.4 |
| Vertical | 162.876 | 30.0 | 20.0 | 8.5 | -- | 18.5 | 43.5 | -25.0 |
| Vertical | 190.022 | 29.6 | 20.0 | 7.6 | -- | 17.2 | 43.5 | -26.3 |
| Vertical | 271.460 | 30.9 | 20.0 | 8.4 | -- | 19.3 | 46.0 | -26.7 |

NOTES: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative sign in the column shows value below limit.

4. Loop antenna is used for the emissions below 30 MHz.

Report No.: GZHH00146938-001

FCC ID: Z6QFC09527A

TRF No.: FCC 15C_TX_b

INTERTEK TESTING SERVICES

Applicant: GUANGDONG FEILUN TECHNOLOGY INDUSTRIAL CO., LTD..

Date of test: February 25, 2014

Model: FL2014

Test Mode: Transmit

Antenna 3: Integral antenna with plastic enclosure

Table 1

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Average Factor (-dB) | Net at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|----------------------|--------------------------|----------------------------|-------------|
| Vertical | 27.146 | 32.7 | 0.0 | 18.4 | 5.0 | 47.1 | 80.0 | -32.9 |
| Vertical | 54.292 | 45.3 | 20.0 | 8.6 | -- | 33.9 | 40.0 | -6.1 |
| Vertical | 81.438 | 33.7 | 20.0 | 8.1 | -- | 21.8 | 40.0 | -18.2 |
| Vertical | 108.584 | 34.3 | 20.0 | 8.3 | -- | 22.6 | 43.5 | -20.9 |
| Vertical | 162.876 | 29.8 | 20.0 | 8.5 | -- | 18.3 | 43.5 | -25.2 |
| Vertical | 190.022 | 29.4 | 20.0 | 7.6 | -- | 17.0 | 43.5 | -26.5 |
| Vertical | 271.460 | 31.7 | 20.0 | 8.4 | -- | 20.1 | 46.0 | -25.9 |

NOTES: 1. Peak Detector Data unless otherwise stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative sign in the column shows value below limit.

4. Loop antenna is used for the emissions below 30 MHz.

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4.0 **Equipment Photographs**

For electronic filing, the photographs are saved with filename: external photos.pdf and internal photos.pdf.

5.0 **Product Labelling**

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

6.0 **Technical Specifications**

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

7.0 **Instruction Manual**

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

8.0 **Miscellaneous Information**

This miscellaneous information includes details of the measured bandwidth, the test procedure and calculation of factors such as pulse desensitization and averaging factor.

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8.1 **Measured Bandwidth**

The plot saved in bw.pdf which shows the fundamental emission is confined in the specified band. And it also shows that the emission is at least 43.15 dB below the carrier level at the band edge (26.96MHz and 27.28 MHz). It meets the requirement of Section 15.227(b).

Pursuant to FCC part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.

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8.2 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

The effective period (T_{eff}) was approximately 500 μs for a digital "1" bit, as shown in the plots of Exhibit 8.3. With a resolution bandwidth (3 dB) of 100 kHz, the pulse desensitivity factor was 0 dB.

8.3 Calculation of Average Factor

Averaging factor in dB = $20 \log (\text{duty cycle})$

The specification for output field strengths in accordance with the FCC rules specify measurements with an average detector. During testing, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation. The duty cycle is measured by placing the spectrum analyzer in zero scan (receiver mode) and linear mode at maximum bandwidth (3 MHz at 3 dB down) and viewing the resulting time domain signal output from the analyzer on a Tektronix oscilloscope. The oscilloscope is used because of its superior time base and triggering facilities.

A plot of the worst-case duty cycle as detected in this manner are saved with filename: af.pdf

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 20.2ms

Effective period of the cycle = $500\mu\text{s} \times 10 + 1.6\text{ms} \times 4 = 11.4\text{ms}$

DC = $11.4\text{ms} / 20.2\text{ms} = 0.5644$ or 56.44%

Therefore, the averaging factor is found by $20 \log_{10} 0.5644 = -5.0 \text{ dB}$

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8.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 - 2009.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

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8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements are made as described in ANSI C63.4 - 2009.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.2).

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

9.0 Equipment List

| Equipment No. | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due Date |
|---------------|---------------------|-----------------|--------------|------------|-----------|-----------|
| SZ061-03 | BiConiLog Antenna | ETS | 3142C | 00066460 | 29-Jun-13 | 29-Jun-14 |
| SZ185-01 | EMI Receiver | R&S | ESCI | 100547 | 12-Mar-13 | 12-Mar-14 |
| SZ188-01 | Anechoic Chamber | ETS | RFD-F/A-100 | 4102 | 2-Mar-13 | 2-Mar-14 |
| SZ062-04 | RF Cable | RADIAL | RG 213U | -- | 20-Jan-14 | 20-Jul-14 |
| SZ062-06 | RF Cable | RADIAL | 0.04-26.5GHz | -- | 20-Jan-14 | 20-Jul-14 |
| SZ061-06 | Active Loop Antenna | Electro-Metrics | EM-6876 | 217 | 13-May-13 | 13-May-14 |