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Certificate No.: F690501/RF-EMG0002687

FCC CLASS B COMPLIANCE REPORT (DOC)

This certifies that the following designated product

Name: RF Keyless Entry System (Receiver)

Model Name: OKA-850R

.....
(Product Identification)

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4 & FCC PART 15 regulations for the evaluation of electromagnetic compatibility.

This Device complies with Part 15 of the FCC rules, operation is subject to the following two conditions.

- (1) This device may not cause harmful interference and,
- (2) This device must accept any interference received,
including interference that may cause undesired operation.

.....
(Identification of regulations / standards)

This declaration is the responsibility of the manufacturer / importer

Applicant : Omron Automotive Electronics Korea Co., Ltd.

**Address of Applicant : Ace Techno 10-cha 701, 470-5, Gasan-dong,
Geumcheon-gu, Seoul, 153-789, Korea**

Manufacturer : Omron Automotive Electronics Korea Co., Ltd.

**Address of Manufacturer : Ace Techno 10-cha 701, 470-5, Gasan-dong,
Geumcheon-gu, Seoul, 153-789, Korea**

.....
(Name / Address)

MANUFACTURER / IMPORTER

TEST LABORATORY

This is the result of test, that was carried out from the submitted type-samples of a product in conformity with the specification of the respective standards. The certificate holder has the right to fix the FCC-mark for EMI on the product complying with the inspection sample.

.....
(Name)

.....
(Date)




.....
(Forest Lee)

April 20, 2009.....

(Date)

EMC TEST REPORT

Reference No. : G-45-2009-00779
Applicant : Omron Automotive Electronics Korea Co., Ltd.
Equipment Under Test (EUT) :
 Product Name : RF Keyless Entry System (Receiver)
 Model Name : OKA-850R
Applied Standards : FCC Part 15 : 2008, Subpart B, Class B
 RSS-GEN Issue 2 : 2007
 ANSI C63.4 : 2003
 CISPR 22 : 2006
Date of Receipt : March 20, 2009
Date of Test : April 16, 2009
Date of Issue : April 20, 2009
Test Results : Complied

Tested by	:		 ----- John Oh
Reviewed by	:		 ----- Forest Lee

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or Testing done by SGS International Electrical Approvals in connection with distribution or use of the product described in this report must be approved by SGS international Electrical Approvals in writing.

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1. General Information

1.1 Client Information

Applicant : Omron Automotive Electronics Korea Co., Ltd.
Address of Applicant : Ace Techno 10-cha 701, 470-5, Gasan-dong,
Geumcheon-gu, Seoul, 153-789, Korea
Manufacturer : Omron Automotive Electronics Korea Co., Ltd.
Address of Manufacturer : Ace Techno 10-cha 701, 470-5, Gasan-dong,
Geumcheon-gu, Seoul, 153-789, Korea

1.2 Test Laboratory

Name and Address : SGS Testing Korea Co., Ltd.
18-34, Sanbon-dong, Gunpo, Gyeonggi-do, Korea
435-041

1.3 General Information of E.U.T.

Product Name : RF Keyless Entry System (Receiver)
Model Name : OKA-850R
Serial No. : None
Power Supply : Input DC 12V
Operating Frequency : 313.85 MHz

1.4 Operating Modes and Conditions

Operating mode	Operating condition
Mode 1	RF Receive Mode
RF Receive Mode	

1.5 Peripheral Equipments

Description	Model	Serial No.	Manufacturer
Code Checker	-	-	-
Car Battery	GLOBAL 400R	-	Rocket
RF Keyless Entry System (Transmitter)	OKA-850T	-	Omron Automotive Electronics Korea Co., Ltd.

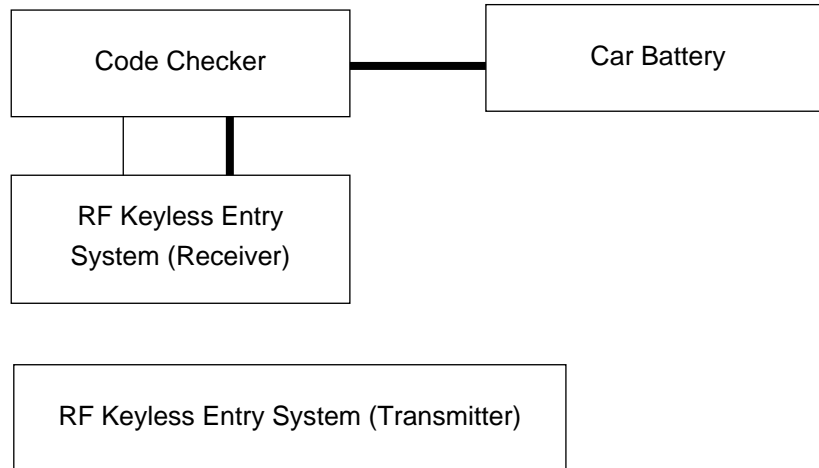
1.6 Cable List

Start		END		Cable Spec.	
Name	I/O Port	Name	I/O Port	Length	Shield
RF Keyless Entry System (Receiver)	DC In	Code Checker	-	0.2	Unshielded
	Signal	Code Checker	-	0.2	Unshielded
Code Checker	-	RF Keyless Entry System (Receiver)	DC IN	0.2	Unshielded
	-	RF Keyless Entry System (Receiver)	Signal	0.2	Unshielded
	-	Car Battery	DC Out	0.2	Unshielded

1.7 System Configurations

Description	Model	Serial No.	Manufacturer
Antenna	-	-	-
Main Board	LM	-	-

1.8 Test System Layout



1.9 Applicable Standards for Testing

Standards	Status	Deviation
FCC Part 15, Subpart B	Applicable	No Deviation
RSS-Gen Issue 2	Applicable	No Deviation

1.10 Summary of Test Results

Test Item	Standards	Results
Radiated Emission	FCC Part 15, Subpart B, RSS-Gen Issue 2	Complied

Note : This is powered from car battery. So, the conducted emission is not performed.

2. Test Description

2.1 Test Equipments

Equipment	Model	Manufacturer	Last Cal. Date
Test Receiver	ESVS10	R&S	2008.06.30
Bi-Log Antenna	HL562	R&S	2007.10.02
Spectrum Analyzer	8593E	HP	2008.07.03
Amplifier	8447F	HP	2008.07.03

Note : Only the calibration period of Bi-Log Antenna is 2 years but the period of every equipment is 1 year.

2.2 Test Site

Radiated Emission : 10m Open Area Test Site in Yongin Laboratory.

2.3 Radiated Emission Test Data

Temperature : 20.3 ~ 20.4

Humidity : 35.0 % RH

Atmospheric Pressure : 101.6 kPa

FREQ. (MHz)	LEVEL (dB μ V)	POL (H/V)	AF (dB)	CL (dB)	F/S (dB μ V/m)	LIMIT (dB μ V/m)	MARGIN (dB)
43.60	6.80	H	11.99	0.73	19.52	40.00	20.48

Note : • AF = Antenna Factor • CL = Cable Loss • F/S = Field Strength
• POL H = Horizontal • POL V = Vertical
• Margin = Limit – F/S • F/S = Level + AF + CL

2.4 Modifications

There was no modified item during the test.

2.5 Photographs of Radiated Emission



3. Photographs of EUT

- Front View



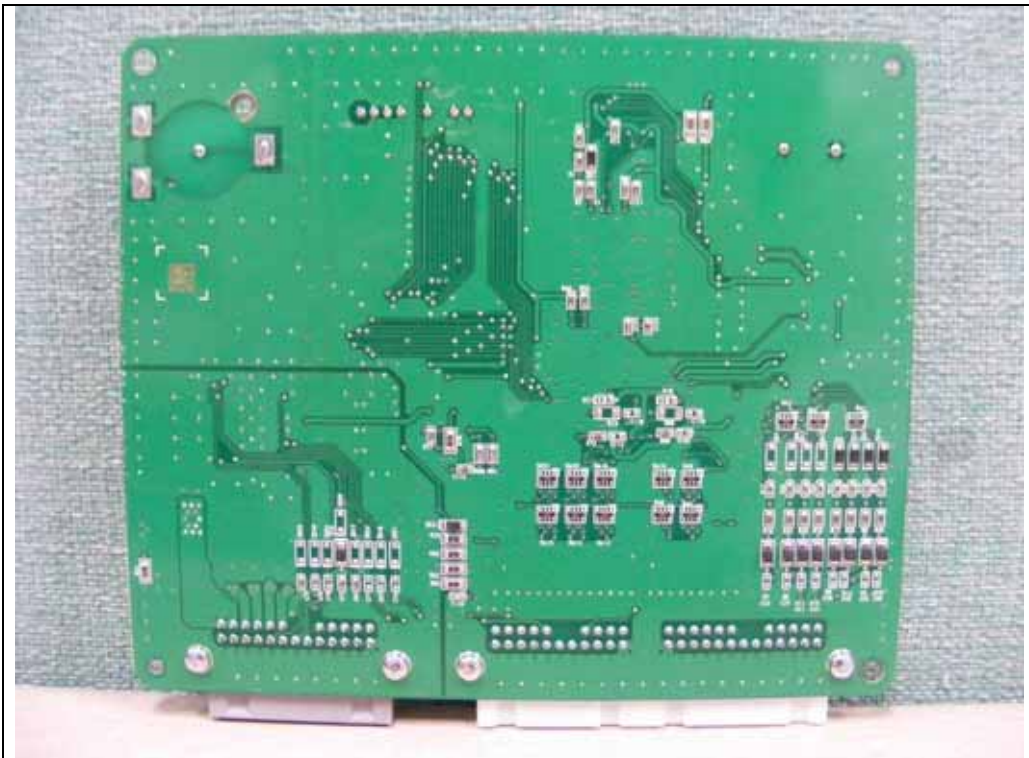
- Rear View



- **Top View of Main Board**



- **Bottom View of Main Board**



● Antenna



● Inside

