



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

EMC KASHIMA CORPORATION

Chiba-ken, Japan

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Presented this 28th day of April 2009.





Peter M. Meyer

President & CEO

For the Accreditation Council

Certificate Number 1266.01

Valid to January 31, 2011

Revised June 25, 2010

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.



"World Class Accreditation"

The American Association for Laboratory Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTRICAL (EMC/AEMCLAP)

Valid to: January 31, 2011

Certificate Number: 1266.01

In recognition of the successful completion of the A2LA and the Automotive EMC Laboratory Accreditation Program (AEMCLAP)¹ evaluation process, accreditation is granted to this laboratory to perform the following automotive electromagnetic compatibility and other EMC/EMI tests:

Test Technology

Test Method(s)

AEMCLRP⁽¹⁾ (Rev. 4) Recognized Tests and Addendum May 25, 2007

Electrostatic Discharge (ESD)

Appendix D

(DC, Ford, GM)

Test Set-up Designation:

ALSE #6, ALSE #7, SR #8, SR #9

ISO 10605 (2001);

DC-11224 (2007) Section 10.1, 10.2;

DC-10614 (2007) Section 10.1, 10.2;

ES-XW7T-1A278-AC (CI 280);

GMW 3097 (2006) Section 3.6

RF Conducted Emissions

Appendix F

(DC, Ford, GM)

Test Set-up Designation:

ALSE #6, ALSE #7

CISPR 25 (2002) Section 6.2, 6.3;

DC-11224 (2007) Section 6.2, 6.3;

DC-10614 (2007) Section 6.3, 6.4;

ES-XW7T-1A278-AC (CE 420);

GMW 3097 (2006) Section 3.3.2

RF Radiated Emissions

Appendix G

(DC, Ford, GM)

Test Set-up Designation:

ALSE #6, ALSE #7

CISPR 25 (2002) Section 6.4;

DC-11224 (2007) Section 6.4;

DC-10614 (2007) Section 6.5;

ES-XW7T-1A278-AC (RE 310);

GMW 3097 (2006) Section 3.3.1

Bulk Current Injection (BCI)

Substitution Method

Appendix I

(DC, Ford, GM)

Test Set-up Designation:

ALSE #6, ALSE #7

ISO 11452-4 (2005);

DC-11224 (2007) Section 7.2;

DC-10614 (2007) Section 7.3;

ES-XW7T-1A278-AC (RI 112);

GMW 3097 (2006) Section 3.4.1

Test Technology

Test Method(s)

Absorber-Lined Shielded Enclosure (ALSE)
Appendix K
(DC, Ford, GM,)
(Using Nonmetallic Bench with metallic surface Ground Plane for Ford and GM)
(200 MHz to 4 GHz), 200 V/m
Test Set-up Designation:
ALSE #6, ALSE #7

ISO 11452-2 (2004);
DC-11224 (2007) Section 7.3;
DC-10614 (2007) Section 7.4;
ES-XW7T-1A278-AC (RI 114);
GMW 3097 (2006) Section 3.4.2

Absorber-lined Shielded Enclosure Radar Pulse Only (ALSE)
Appendix M
(Ford, GM)
Test Set-up Designation:
ALSE #6, ALSE #7

ISO 11452-2 (2004);
DC 11224 (2007) Section 7.2;
ES-XW7T-1A278-AC (RI 114);
GMW 3097 (2006) Section 3.4.2

Test Technology**Test Method(s)****Non-AEMCLRP Tests**

Radiated and Conducted Emissions	CFR 47 Part 15 using ANSI C63.4-2003; CFR 47 Part 18 using FCC/OST MP-5; CISPR 11; EN 55011; AS/NZS CISPR 11; CISPR 14-1; AS/NZS CISPR 14-1; CISPR 22; EN 55022; AS/NZS CISPR 22; ICES-003 Issue 4 (CAN/CSA-CISPR 22); VCCI V-3
Electrostatic Discharge (ESD)	IEC 61000-4-2
Radiated Immunity (up to 3 GHz)	IEC 61000-4-3
Electrical Fast Transient/Burst	IEC 61000-4-4
Surge Immunity	IEC 61000-4-5
Conducted Immunity	IEC 61000-4-6
Power Frequency Magnetic Field Immunity (up to 30 A/m)	IEC 61000-4-8
Voltage Dips, Short Interruptions, and Line Voltage Variations	IEC 61000-4-11
Current Harmonics	IEC 61000-3-2
Voltage Fluctuations & Flicker	IEC 61000-3-3

Test Technology**Test Method(s)*****Product Family Standards***

Information Technology Equipment (Excluding key telephone systems)	CISPR 24 EN 55024
Medical Devices	EN 60601-1-2; IEC 60601-1-2; JIS T 0601-1-2
Measurement Control & Laboratory	IEC 61326-1; JIS C 1806-1; IEC 61326-2-1; IEC 61326-2-2; IEC 61326-2-3; IEC 61326-2-6
Alarm Systems	EN 50130-4
Low Voltage Power Supplies	IEC 61204-3
Household Appliances, Electrical Tools	CISPR 14-2
Lifts, Escalators and Passenger Conveyors	EN 12015; EN 12016

<u>Test Technology</u>	<u>Test Method(s)</u>
<i>Generic Standards - Immunity</i>	IEC 61000-6-1; IEC 61000-6-2
<i>Generic Standards - Emissions</i>	IEC 61000-6-3; IEC 61000-6-4
<i>Vehicle Standards</i>	
Electrostatic Discharge (ESD)	ISO 10605:2008; SAE J1113-13: 2004
Radiated Emissions	CISPR 25: 2008
Conducted Emissions	CISPR 25: 2008
Absorber-Lined Shielded Enclosure (ALSE)	ISO 11452-2:2004; SAE J1113-21: 1998
Bulk Current Injection (BCI) (Closed-loop method)	ISO 11452-4:2005; SAE J1113-4: 2004
Immunity to Magnetic Fields	ISO 11452-8:2007; SAE J1113-22: 1996
Conducted Transient	ISO 7637-2:1990, 2004; ISO 7637-3:1995, 2007

On the following products or types of products: Automotive, Industrial, Scientific, and Medical (ISM) Equipment; Information Technology Equipment (ITE); Household Appliances; Electric Tools, Alarm Systems, Power Supplies

¹ A2LA provides Accreditation for the Automotive EMC Laboratory Recognition Program (AEMCLRP) which is designated as the Automotive EMC Laboratory Accreditation Program (AEMCLAP). DaimlerChrysler (DC), Ford Motor Company (Ford) and General Motors Corporation (GM) provide overall recognition as part of the AEMCLRP document (Fourth Edition, 01/27/06). This document is available on the A2LA web site (www.a2la.org). Accreditation to the A2LA AEMCLAP requirements does not ensure recognition by the aforementioned organizations. Confirmation of recognition can be obtained from these organizations directly.