



World Class Accreditation

The American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

COSMOS CORPORATION

Matsusaka-shi, Mie, 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 24th day of August 2009.





Peter Meyer

President & CEO
For the Accreditation Council
Certificate Number 2900.01
Valid to September 30, 2011

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTRICAL

Valid To: September 30, 2011

Certificate Number: 2900.01.

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

Test:

Radiated Emissions

Test Method:

CISPR 11; AS/NZS:CISPR 11; EN 55011;
ICES-001;
CISPR 14-1; AS/NZS:CISPR 14-1;
EN 55014-1; J 55014-1;
CISPR 22; AS/NZS:CISPR 22;
EN 55022; J 55022;
CFR 47, FCC Part 15 Subpart B using ANSI C63.4;
ICES-003;
IEC 61326-1; EN 61326-1;
IEC 60601-1-2; EN 60601-1-2;
IEC 61000-6-3; EN 61000-6-3;
IEC 61000-6-4; EN 61000-6-4;
CISPR 25;
2004/104/EC (Annex VII/Annex VIII);
ECE Reg.10 (Annex VII/Annex VIII);
ES-XW7T-1A278-AC (RE310);
DC-11224 (6.4);
GMW 3097 (3.3.1)
CISPR 11; AS/NZS:CISPR 11; EN 55011;
ICES-001;
CISPR 14-1; AS/NZS:CISPR 14-1;
EN 55014-1; J 55014-1;
CISPR 22; AS/NZS:CISPR 22;
EN 55022; J 55022;
CFR 47, FCC Part 15 Subpart B using ANSI C63.4

Conducted Emissions

Test:

Conducted Emissions (continued)

Test Method:

ICES-003;
IEC 61326-1; EN 61326-1;
IEC 60601-1-2; EN 60601-1-2;
IEC 61000-6-3; EN 61000-6-3;
IEC 61000-6-4; EN 61000-6-4;
CISPR 25;
2004/104/EC (Annex VII/Annex VIII);
ECE Reg.10 (Annex VII/Annex VIII);
ES-XW7T-1A278-AC (CE420);
DC-11224 (6.2; 6.3);
GMW 3097 (3.3.2)
CISPR 14-1; AS/NZS:CISPR 14-1;
EN 55014-1; J 55014-1
IEC 61000-3-2; EN 61000-3-2;
JIS C 61000-3-2
IEC 61000-3-3; EN 61000-3-3
CISPR 14-2; EN 55014-2;
CISPR 24; EN 55024;
IEC 61000-6-1; EN 61000-6-1;
JIS C 61000-6-1;
IEC 61000-6-2; EN 61000-6-2;
JIS C 61000-6-2;
IEC 61326-1; EN 61326-1;
IEC 60601-1-2; EN 60601-1-2
EN 61000-4-2;
IEC 61000-4-2;
ISO 10605 (2008);
ISO 10605 (2001);
SAE J1113-13;
ES-XW7T-1A278-AC (CI 280);
GMW 3097 (2006) Sections 3.6.1; 3.6.2; 3.6.3;
JIS C 61000-4-2;
CISPR 24; EN 55024;
IEC 61000-6-1; EN 61000-6-1;
JIS C 61000-6-1;
IEC 61000-6-2; EN 61000-6-2;
JIS C 61000-6-2;
IEC 61326-1; EN 61326-1;
IEC 60601-1-2; EN 60601-1-2
IEC 61000-4-3; EN 61000-4-3;
JIS C 61000-4-3;
CISPR 24; EN 55024;
IEC 61000-6-1; EN 61000-6-1;
JIS C 61000-6-1;
IEC 61000-6-2; EN 61000-6-2;
JIS C 61000-6-2;
IEC 61326-1; EN 61326-1;
IEC 60601-1-2; EN 60601-1-2

Disturbance Power

Harmonics

Flicker

Immunity (General)

Electrostatic Discharge (ESD)

Radiated Disturbances Immunity



Test:

First Transient Burst

Test Method:

IEC 61000-4-4; EN 61000-4-4;

JIS C 61000-4-4;

CISPR 24; EN 55024;

IEC 61000-6-1; EN 61000-6-1;

JIS C 61000-6-1;

IEC 61000-6-2; EN 61000-6-2;

JIS C 61000-6-2;

IEC 61326-1; EN 61326-1;

IEC 60601-1-2; EN 60601-1-2

Surge

IEC 61000-4-5; EN 61000-4-5;

JIS C 61000-4-5;

CISPR 24; EN 55024;

IEC 61000-6-1; EN 61000-6-1;

JIS C 61000-6-1;

IEC 61000-6-2; EN 61000-6-2;

JIS C 61000-6-2;

IEC 61326-1; EN 61326-1;

IEC 60601-1-2; EN 60601-1-2

Conducted Disturbances Immunity

IEC 61000-4-6; EN 61000-4-6;

JIS C 61000-4-6;

CISPR 24; EN 55024;

IEC 61000-6-1; EN 61000-6-1;

JIS C 61000-6-1;

IEC 61000-6-2; EN 61000-6-2;

JIS C 61000-6-2;

IEC 61326-1; EN 61326-1;

IEC 60601-1-2; EN 60601-1-2

Magnetic Field

IEC 61000-4-8; EN 61000-4-8;

JIS C 61000-4-8;

CISPR 24; EN 55024;

IEC 61000-6-1; EN 61000-6-1;

JIS C 61000-6-1;

IEC 61000-6-2; EN 61000-6-2;

JIS C 61000-6-2;

IEC 61326-1; EN 61326-1;

IEC 60601-1-2; EN 60601-1-2

Voltage Variations, Dips, Short interruptions

IEC 61000-4-11; EN 61000-4-11;

JIS C 61000-4-11;

CISPR 24; EN 55024;

IEC 61000-6-1; EN 61000-6-1;

JIS C 61000-6-1;

IEC 61000-6-2; EN 61000-6-2;

JIS C 61000-6-2;

IEC 61326-1; EN 61326-1;

IEC 60601-1-2; EN 60601-1-2

Conducted Transient Emission

ISO 16750-2 (4.6.3)

ISO 7637-2 (4.3);

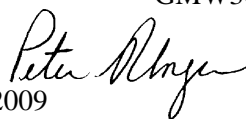
2004/104/EC (Annex X);

ECE Reg.10 (Annex X);

ES-XW7T-1A278-AC (CE410);

DC-11224 (6.5);

GMW3097 (3.5.1)



Test:

Radiated Disturbance Immunity

Bulk Current Injection (BCI)

Magnetic Field Immunity
Transient Immunity

Test Method:

ISO 11452-2;
ISO 11452-3;
SAE J1113-21;
SAE J1113-24;
ES-XW7T-1A278-AC (RI114);
GMW 3097 (3.4.2);
DC-11224 (7.3; 7.4 ;7.5);
2004/104/EC (Annex IX 4.1; 4.2);
ECE Reg.10 (Annex IX 4.1; 4.2)
ISO 11452-4;
SAE J1113-3;
ES-XW7T-1A278-AC (RI112);
GMW 3097 (3.4.1);
DC-11224 (7.2);
ECE Reg.10 (Annex IX 4.3);
2004/104/EC (Annex IX 4.3)
ES-XW7T-1A278-AC (RI140)
ISO 7637-2 (4.4; 5.6.1 - 5.6.5);
ISO 7637-3 (3.4.2; 3.4.3; 3.4.4);
SAE J1113-11;
ES-XW7T-1A278-AC (CI220);
DC-11224 (2007/06), Sections 9.1, 9.2;
DC-10614;
GMW 3097 (2006) Sections 3.5.2, 3.5.3, 3.5.4, 3.5.5;
ECE Reg.10 (Annex X);
2004/104/EC (Annex X)

Types of products, materials, and/or industry that the laboratory tests:

Telecommunications Terminal Equipment (TTE), Radio Equipment, Network Equipment, Information Technology Equipment (ITE)

Automotive Electronic Equipment; Maritime Navigation and Radiocommunication Equipment and Systems, Vehicles, Boats and Internal Combustion Engine Driven Devices

Medical Electrical Equipment, Motors, Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment, Household Appliances, Electric Tools, Low-voltage Switchgear and Controlgear, Programmable Controllers, Electrical Equipment for Measurement, Control and Laboratory Use

