

# CERTIFICATE OF ACCREDITATION

## Korea Testing and Research Institute

**Accreditation No. :** KT011

**Corporation Registration No. :** 134122-0007297

**Address of Laboratory :** 98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, Korea  
68, Gajaeul-ro, Seo-gu, Incheon, Korea  
15, Jongga-ro, Jung-gu, Ulsan, Korea  
42-27, Jungbu-daero 2517beon-gil, Yangji-myeon, Cheoin-gu,  
Yongin-si, Gyeonggi-do, Korea  
5, Myeongji ocean city 9-ro, Gangseo-gu, Busan, Korea  
12-63, Sandan-gil, Hwasun-eup, Hwasun-gun, Jeollanam-do, Korea  
122-11, Seongseo4chacheomdan-ro, Dalseo-gu, Daegu, Korea

**date of Initial Accreditation :** December 10, 1994

**Duration :** April 28, 2014 ~ April 27, 2018

**Scope of Accreditation :** Attached Annex

**Date of issue :** August 7, 2017

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



*Jung Dong Hee*

**Administrator**

**Korea Laboratory Accreditation Scheme**

# Korea Laboratory Accreditation Scheme

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Address of Laboratory : 122-11, Seongseo4chacheomdan-ro, Dalseo-gu, Daegu, Korea

## 03. Electric Test

### 03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
KS C CISPR 11:2011	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz
KS C CISPR 14-1: 2011	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part1 : Emission	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz DP : 30 MHz ~ 300 MHz Loop : 9 kHz ~ 30 MHz Click(4 channel)
KS C CISPR 14-2:2011	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part2 : Immunity – Product family standard	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) V-Dip : Rating current 16 A
KS C CISPR 15:2011	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (Exception) 4.2 Insertion loss	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz Loop : 9 kHz ~ 30 MHz
KS C CISPR 22:2011	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
KS C CISPR 24:2014	Information technology equipment – Immunity characteristics – Limits and methods of measurement (Exception) Annex A (normative) Telephony terminal equipment	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 1 A/m V-Dip : Rating current 16 A

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## 03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
KS C CISPR 61000-6-3:2014	Electromagnetic compatibility (EMC) - Part6: Generic standards – Section 3: Emission standard for residential, commercial and light-industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz
KS C IEC 60601-1-2:2012	Medical electrical equipment Part 1-2 : General requirements for basic safety and essential performance - Collateral Standard : Electromagnetic disturbances - Requirements and tests	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz ESD : 8 kV RS : 80 MHz ~ 2.5 GHz(10 V/m) EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(10 V) M/F : 3 A/m V-Dip : Rating current 16 A
KS C IEC 61000-4-2:2010	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	ESD : 16 kV
KS C IEC 61000-4-3:2013	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	RS : 80 MHz ~ 6 GHz(10 V/m)
KS C IEC 61000-4-4:2013	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques – Electrical fast transient/burst immunity test	EFT : 4 kV
KS C IEC 61000-4-5:2014	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge immunity test	Surge : 4 kV
KS C IEC 61000-4-6:2010	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to conducted	CS : 150 kHz ~ 230 MHz(10 V)

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## 03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
	disturbances, induced by radio-frequency fields	
KS C IEC 61000-4-8:2010	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques – Power frequency magnetic field immunity test	M/F : 30 A/m (continuous)
KS C IEC 61000-4-11:2008	Electromagnetic compatibility (EMC) - Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	Rating current 16 A
KS C IEC 61000-6-1:2014	Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards – Immunity for residential, commercial and light-industrial environments	ESD : 8 kV RS : 80 MHz ~ 2.7 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz (3 V) M/F : 3 A/m V-Dip : Rating current 16 A
KS C IEC 61000-6-2:2014	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards – Immunity for industrial environments	ESD : 8 kV RS : 80 MHz ~ 2.7 GHz(10 V/m) EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(10 V) M/F : 30 A/m V-Dip : Rating current 16 A
KS C IEC 61000-6-4:2014	Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards – Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz

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## 03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
KS C IEC 61547:2014	Equipment for general lighting purposes – EMC immunity requirements	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 30 A/m V-Dip : Rating current 16 A
KN 11 : 2015	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz
KN 14-1 : 2014	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part1 : Emission	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz DP : 30 MHz ~ 300 MHz Loop : 9 kHz ~ 30 MHz Click(4 channel)
KN 14-2 : 2015	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part2 : Immunity – Product family standard	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 230 MHz(3 V) V-Dip : Rating current 16 A
KN 15 : 2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (Exception) 4.2 Insertion loss	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz Loop : 9 kHz ~ 30 MHz

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Test Method	Standard designation	Test range
KN 17 : 2013	Household and similar electrical appliances - Wireless power transmission equipment - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 1 GHz
KN 22 : 2009	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
KN 24 : 2011	Information technology equipment – Immunity characteristics – Limits and methods of measurement (Exception) Annex A (normative) Telephony terminal equipment	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 1 A/m V-Dip : Rating current 16 A
KN 32 : 2015	Electromagnetic compatibility of multimedia equipment - Emission requirements (Exception) Annex A (normative) Requirements 1) Table A.6 - Requirements for radiated emissions from FM receivers 2) Table A8.5 Matching and combining networks for voltage measurement into 75 $\Omega$ 3) Table A8.6 Matching network for voltage measurement into 75 $\Omega$ 4) Table A.12 - Requirements for asymmetric mode conducted emissions from Class B equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
KN 60601-1-2 : 2008	Medical electrical equipment Part 1-2 : General requirements for basic safety and essential performance - Collateral Standard : Electromagnetic	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz ESD : 8 kV RS : 80 MHz ~ 2.5

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Test Method	Standard designation	Test range
	disturbances - Requirements and tests	GHz(10 V/m) EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(10 V) M/F : 3 A/m V-Dip : Rating current 16 A
KN 61000-4-2 : 2013	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	ESD : 16 kV
KN 61000-4-3 : 2011	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	RS : 80 MHz ~ 6 GHz(10 V/m)
KN 61000-4-4 : 2011	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	EFT : 4 kV
KN 61000-4-5 : 2008	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge immunity test	Surge : 4 kV
KN 61000-4-6 : 2013	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	CS : 150 kHz ~ 230 MHz(10 V)
KN 61000-4-8 : 2013	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	M/F : 30 A/m(continuous)

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Test Method	Standard designation	Test range
KN 61000-4-11 : 2008	Electromagnetic compatibility (EMC) - Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	Rating current 16 A
KN 61000-6-1 : 2012	Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments	ESD : 8 kV RS : 80 MHz ~ 2.7 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 3 A/m V-Dip : Rating current 16 A
KN 61000-6-2 : 2012	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards - Immunity for industrial environments	ESD : 8 kV RS : 80 MHz ~ 2.7 GHz(10 V/m) EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(10 V) M/F : 30 A/m V-Dip : Rating current 16 A
KN 61000-6-3 : 2012	Electromagnetic compatibility (EMC) - Part6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
KN 61000-6-4 : 2012	Electromagnetic compatibility (EMC) - Part6-4 : Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz



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Test Method	Standard designation	Test range
KN 61547 : 2012	Equipment for general lighting purposes – EMC immunity requirements	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 3 A/m V-Dip : Rating current 16 A
IEC 60601-1-2 : 2014	Medical electrical equipment Part 1-2 : General requirements for basic safety and essential performance - Collateral Standard : Electromagnetic disturbances - Requirements and tests	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz ESD : 15 kV RS : 80 MHz ~ 2.7 GHz(10 V/m) EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(10 V) M/F : 30 A/m V-Dip : Rating current 16 A
IEC 61000-4-2 : 2008	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	ESD : 16 kV
IEC 61000-4-3 : 2010	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	RS : 80 MHz ~ 6 GHz(10 V/m)
IEC 61000-4-4 : 2012	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques – Electrical fast transient/burst immunity test	EFT : 4 kV
IEC 61000-4-5 : 2014	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge immunity test	Surge : 4 kV

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Test Method	Standard designation	Test range
IEC 61000-4-6 : 2015	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	CS : 150 kHz ~ 230 MHz(10 V)
IEC 61000-4-8 : 2009	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques – Power frequency magnetic field immunity test	M/F : 30 A/m(continuous)
IEC 61000-4-11 : 2010	Electromagnetic compatibility (EMC) - Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	Rating current 16 A
IEC 61000-6-1 : 2005	Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards – Immunity for residential, commercial and light-industrial environments	ESD : 8 kV RS : 80 MHz ~ 2.7 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 3 A/m V-Dip : Rating current 16 A
IEC 61000-6-2:2005	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards – Immunity for industrial environments	ESD : 8 kV RS : 80 MHz ~ 2.7 GHz(10 V/m) EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(10 V) M/F : 30 A/m V-Dip : Rating current 16 A
IEC 61000-6-3 : 2011	Electromagnetic compatibility (EMC) - Part6-3 : Generic standards – Emission standard for residential,	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz

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Test Method	Standard designation	Test range
	commercial and light-industrial environments	
IEC 61000-6-4 : 2011	Electromagnetic compatibility (EMC) - Part6-4 : Generic standards – Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
IEC 61547 : 2009	Equipment for general lighting purposes – EMC immunity requirements	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 3 A/m V-Dip : Rating current 16 A
CISPR 11 : 2015	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz
CISPR 14-1 : 2011	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part1 : Emission	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz DP : 30 MHz ~ 300 MHz Loop : 9 kHz ~ 30 MHz Click(4 channel)
CISPR 14-2 : 2015	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part2 : Immunity – Product family standard	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 230 MHz(3 V) V-Dip : Rating current 16 A
CISPR 15 : 2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (Exception) 4.2 Insertion loss	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 300 MHz Loop : 9 kHz ~ 30 MHz

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Test Method	Standard designation	Test range
CISPR 22 : 2008	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
CISPR 24 : 2015	Information technology equipment – Immunity characteristics – Limits and methods of measurement (Exception) Annex A (normative) Telephony terminal equipment	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 1 A/m V-Dip : Rating current 16 A
CISPR 32 : 2015	Electromagnetic compatibility of multimedia equipment - Emission requirements (Exection) Annex A (normative) Requirements 1) Table A.6 - Requirements for radiated emissions from FM receivers 2) Table A8.5 Matching and combining networks for voltage measurement into 75 $\Omega$ 3) Table A8.6 Matching network for voltage measurement into 75 $\Omega$ 4) Table A.12 - Requirements for asymmetric mode conducted emissions from Class B equipment	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
EN 50130-4 : 2014	Alarm systems - Part 4 : Electromagnetic compatibility - Product family standard : Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems	ESD : 8 kV RS : 80 MHz ~ 2.7 GHz(10 V/m) EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 100 MHz(10 V)
EN 55011 : 2010	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz

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Test Method	Standard designation	Test range
EN 55014-1 : 2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 : Emission	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz DP : 30 MHz ~ 300 MHz Loop : 9 kHz ~ 30 MHz Click(4 channel)
EN 55014-2 : 2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 : Immunity - Product family standard	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 230 MHz(3 V) V-Dip : Rating current 16 A
EN 55015 : 2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (Exception) 4.2 Insertion loss	CE : 9 kHz ~ 30 MHz RE : 30 kHz ~ 300 MHz Loop : 9 kHz ~ 30 MHz
EN 55022 : 2010	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
EN 55024 : 2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement (Exception) Annex A (normative) Telephony terminal equipment	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 1 A/m V-Dip : Rating current 16 A
EN 55032 : 2015	Electromagnetic compatibility of multimedia equipment - Emission Requirements (Exception)	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz

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Test Method	Standard designation	Test range
	Annex A (normative) Requirements 1) Table A.6 - Requirements for radiated emissions from FM receivers 2) Table A8.5 Matching and combining networks for voltage measurement into 75 $\Omega$ 3) Table A8.6 Matching network for voltage measurement into 75 $\Omega$ 4) Table A.12 - Requirements for asymmetric mode conducted emissions from Class B equipment	
EN 60601-1-2 : 2015	Medical electrical equipment Part 1-2 : General requirements for basic safety and essential performance Collateral standard : Electromagnetic disturbances Requirements and tests	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz ESD : 15 kV RS : 80 MHz ~ 2.7 GHz(10 V/m) EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 30 A/m V-Dip : Rating current 16 A
EN 61000-4-2 : 2009	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test	ESD : 16 kV
EN 61000-4-3 : 2010	Electromagnetic compatibility (EMC) - Part 4-3 : Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	RS : 80 MHz ~ 6 GHz(10 V/m)
EN 61000-4-4 : 2012	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	EFT : 4 kV
EN 61000-4-5 : 2014	Electromagnetic compatibility (EMC) - Part 4-5 : Testing and measurement techniques - Surge immunity test	Surge : 4 kV

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## 03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
EN 61000-4-6 : 2014	Electromagnetic compatibility (EMC) - Part 4-6 : Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	CS : 150 kHz ~ 230 MHz(10 V)
EN 61000-4-8 : 2010	Electromagnetic compatibility (EMC) - Part 4-8 : Testing and measurement techniques - Power frequency magnetic field immunity test	M/F : 30 A/m(continuous)
EN 61000-4-11 : 2004	Electromagnetic compatibility (EMC) - Part 4-11 : Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	Rating current 16 A
EN 61000-6-1 : 2007	Electromagnetic compatibility (EMC) - Part 6-1 : Generic standards - Immunity for residential, commercial and light-industrial environments	ESD : 8 kV RS : 80 MHz ~ 2.7 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 3 A/m V-Dip : Rating current 16 A
EN 61000-6-2 : 2005	Electromagnetic compatibility (EMC) - Part 6-2 : Generic standards - Immunity for industrial environments	ESD : 8 kV RS : 80 MHz ~ 2.7 GHz(10 V/m) EFT : 2 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(10 V) M/F : 30 A/m V-Dip : Rating current 16 A
EN 61000-6-3 : 2011	Electromagnetic compatibility (EMC) - Part 6-3 : Generic standards - Emission standard for residential, commercial and light-industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz

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## 03.011 Electromagnetic compatibility (EMC)

Test Method	Standard designation	Test range
EN 61000-6-4 : 2011	Electromagnetic compatibility (EMC) - Part 6-4 : Generic standards - Emission standard for industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
EN 61547 : 2009	Equipment for general lighting purposes - EMC immunity requirements	ESD : 8 kV RS : 80 MHz ~ 1 GHz(3 V/m) EFT : 1 kV Surge : 2 kV CS : 150 kHz ~ 80 MHz(3 V) M/F : 3 A/m V-Dip : Rating current 16 A
AS/NZS CISPR 11 : 2011	Industrial, scientific and medical equipment – Radio – frequency disturbance characteristics – Limits and methods of measurement	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz
AS/NZS CISPR 14-1 : 2013	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 1 : Emission	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 1 GHz Loop : 9 kHz ~ 30 MHz Click(4 channel)
AS/NZS CISPR 15 : 2011	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	CE : 9 kHz ~ 30 MHz RE : 30 kHz ~ 300 MHz Loop : 9 kHz ~ 30 MHz
AS/NZS CISPR 22 : 2010	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	CE : 150 kHz ~ 30 MHz RE : 30 MHz ~ 6 GHz
AS/NZS 4251.1 : 1999	Electromagnetic compatibility (EMC) - Generic Emission standard Part1 : Residential, commercial and light industry	CE : 150 kHz ~ 30 MHz RE : 30 kHz ~ 1 GHz
AS/NZS 4251.2 : 1999	Electromagnetic compatibility (EMC) - Generic emission standard Part 2 : Industrial environments	CE : 150 kHz ~ 30 MHz RE : 30 kHz ~ 1 GHz



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Test Method	Standard designation	Test range
FCC PART 15 : 2013	RADIO FREQUENCY DEVICES	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz
FCC PART 18 : 2013	INDUSTRIAL, SCIENTIFIC, AND MEDICAL EQUIPMENT	CE : 9 kHz ~ 30 MHz RE : 9 kHz ~ 18 GHz

End.