

제485호 (1/4)

국제공인시험기관인정서

기 관 명 : (재)대전테크노파크 고주파부품산업지원센터

대 표 자 : 박 준 병

법 인 등 록 번 호 : 160122-0004100

사업자등록번호 : 314-82-08421

법 인 주 소 : 대전 유성구 탑립동 694번지

사 업 장 소 제 지 : 대전 유성구 탑립동 694번지 고주파센터

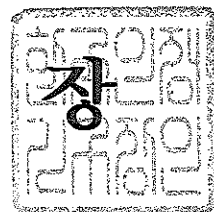
유효 기 간 : 2011년 7월 15일 ~ 2015년 7월 14일

인정분야 및 범위 : 별첨 참조

상기 시험기관을 KS Q ISO/IEC 17025:2006 인정요건 및 국가표준기본법 제23조의 규정에 의거하여 국제공인시험기관으로 인정합니다. 또한 ISO-ILAC-IAF 공동성명(2009.1.8)에 언급된 바와 같이 인정된 분야 및 범위에 대한 기술적 능력과 시험기관 품질경영시스템이 적절함을 인정합니다.

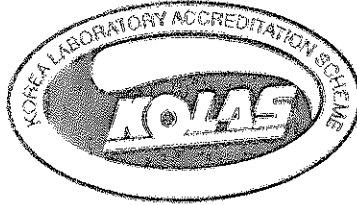
2011년 7월 15일

한 국 인 정 기 구



“이면사항기재”

1. 2011. 07. 15 : 최초인정[03.전기시험(03008.유/무선 통신기기, 03014.환경 및 신뢰성)]

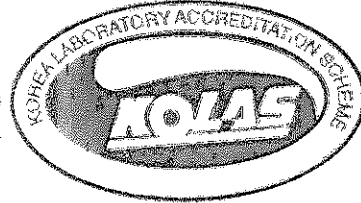


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3. 전기시험

3.008 유무선통신기기

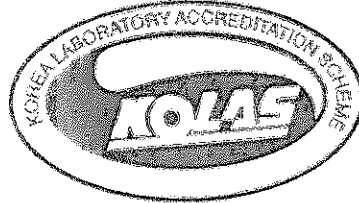
규격번호	규격명	시험범위 및 검출한계
방통위고시 제2010-48호 : 2010.12.17	무선설비규칙 제82조 이동전화용 무선설비 제83조 개인휴대전화용 무선설비 제91조 이동통신용 무선설비 제98조 특정소출력무선국용 무선설비 2) 데이터전송용 특정소출력 무선기기 7) 무선데이터통신시스템용 특정 소출력 무선기기 제99조 RFID/USN 등의 무선설비 1) 900 MHz 대역기기 2) 433 MHz 대역기기	
EN 300 220-1 v2.3.1 : 2010-02	Electromagnetic compatibility and Radio spectrum Matters(ERM); Short Range Devices(SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1 : Technical characteristics and test methods	
EN 300 220-2 v2.3.1 : 2010-02	Electromagnetic compatibility and Radio spectrum Matters(ERM); Short Range Devices(SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2 : Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive	



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3.008 유무선통신기기(계속)

규격번호	규격명	시험범위 및 검출한계
EN 300 328 v1.7.1 : 2006-10	Electromagnetic compatibility and Radio spectrum Matters(ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive	
EN 300 440-1 v1.6.1 : 2010-08	Electromagnetic compatibility and Radio spectrum Matters(ERM); Short Range Devices(SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1 : Technical characteristics and test methods	1 GHz to 18 GHz <Exception> The frequency range exceed 18 GHz
EN 300 440-2 v1.4.1 : 2010-08	Electromagnetic compatibility and Radio spectrum Matters(ERM); Short Range Devices(SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2 : Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive	1 GHz to 18 GHz <Exception> The frequency range exceed 18 GHz

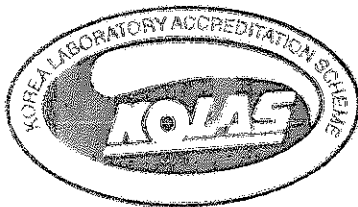


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3.014 환경 및 신뢰성

규격번호	규격명	시험범위 및 검출한계
KS C 0221 : 1999	환경 시험 방법-전기·전자-고온(내열성) 시험 방법	
KS C 0225 : 2001	환경 시험 방법-전기·전자-온도 변화 시험 방법	<Exception> 5. 시험 Nc : 2액조 온도 급변
KS C 0227 : 2001	환경 시험 방법-전기·전자-온습도 사이클 (12+12시간 사이클) 시험 방법	
KS C 0228 : 2001	환경 시험 방법-전기·전자-온습도 조합(사이클) 시험 방법	
KS C IEC 60068-2-1 : 2010	환경 시험-제2-1부 : 시험-시험 A : 내한성 시험	
KS C IEC 60068-2-78 : 2002	환경 시험 방법(전기·전자)-안정 상태의 내습성 시험	
IEC 60068-2-2 Ed.5.0 : 2007-07	Environmental testing-Part 2-2 : Tests-Test B : Dry heat	
IEC 60068-2-14 Ed.6.0 : 2009-01	Environmental testing-Part 2-14 : Tests-Test N : Change of temperature	<Exception> 9. Test Nc : Rapid change of temperature, two-fluid-bath method
IEC 60068-2-30 Ed.3.0 : 2005-08	Environmental testing-Part 2-30 : Tests-Test Db : Damp heat, cyclic(12h+12h cycle)	
IEC 60068-2-38 Ed.2.0 : 2009-1	Environmental testing-Part 2-38 : Tests-Test Z/AD : Composite temperature/humidity cyclic test	
IEC 60068-2-1 Ed.6.0 : 2007-03	Environmental testing-Part 2-1 : Tests-Test A : Cold	
IEC 60068-2-78 Ed.1.0 : 2001-08	Environmental testing-Part 2-78 : Tests-Test Cab : Damp heat, steady state	

끝.



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CERTIFICATE OF ACCREDITATION

Name of Laboratory : Daejeon Technopark Daedeok Radio Engineering Center

Representative : Park, Jun-Byung

Address of Headquarters : 694 Tamnip-dong, Yuseong-gu, Daejeon, Korea

Address of Laboratory : Daedeok Radio Engineering Center 694 Tamnip-dong,
Yuseong-gu, Daejeon, Korea

Duration : July 15, 2011 ~ July 14, 2015

Scope of Accreditation

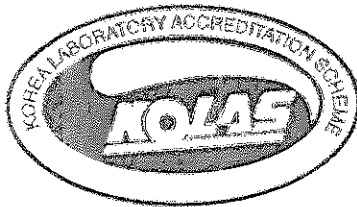
(Scope of Accreditation is described in the accompanying Annex)

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).

July 15, 2011

Administrator,

Korea Laboratory Accreditation Scheme(KOLAS)

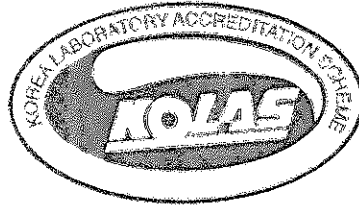


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3. Electrical Test

3.008 Wired, wireless Communication Equipment

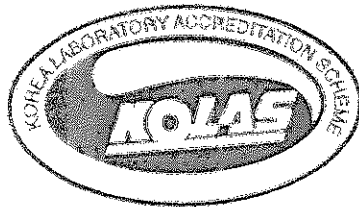
Test method	Standard designation	Test range or Limits of detection
Korea Communications Commission Notification No 2010-48 : 2010.12.17	Rules on Radio Equipments Article 82 Radio equipment for mobile telephone Article 83 Radio equipment for personal communications Article 91 Radio equipment for mobile communications Article 98 Radio equipment for specified low-power radio stations 2) Radio equipment for data transmission 7) Radio equipment for radio data communication system Article 99 Radio equipment for RFID/USN 1) Equipment using a frequency band of radio wave 900 MHz 2) Equipment using a frequency band of radio wave 433MHz	
EN 300 220-1 v2.3.1 : 2010-02	Electromagnetic compatibility and Radio spectrum Matters(ERM); Short Range Devices(SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1 : Technical characteristics and test methods	
EN 300 220-2 v2.3.1 : 2010-02	Electromagnetic compatibility and Radio spectrum Matters(ERM); Short Range Devices(SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2 : Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive	



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3.008 Wired, wireless Communication Equipment(Cont.)

Test method	Standard designation	Test range or Limits of detection
EN 300 328 v1.7.1 : 2006-10	Electromagnetic compatibility and Radio spectrum Matters(ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive	
EN 300 440-1 v1.6.1 : 2010-08	Electromagnetic compatibility and Radio spectrum Matters(ERM); Short Range Devices(SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1 : Technical characteristics and test methods	1 GHz to 18 GHz <Exception> The frequency range exceed 18 GHz
EN 300 440-2 v1.4.1 : 2010-08	Electromagnetic compatibility and Radio spectrum Matters(ERM); Short Range Devices(SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2 : Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive	1 GHz to 18 GHz <Exception> The frequency range exceed 18 GHz



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3.014 Environmental and Reliability

Test method	Standard designation	Test range or Limits of detection
KS C 0221 : 1999	Basic environmental testing procedures- Part 2 : Tests, Tests B : Dry heat	
KS C 0225 : 2001	Basic environmental testing procedures- Part 2 : Tests-Test N : Change of temperature	<Exception> 5. Test Nc : Rapid change of temperature, two-fluid-bath method
KS C 0227 : 2001	Basic environmental testing procedures- Part 2 : Tests-Test Db and guidance : Damp heat, cyclic (12+12-hour cycle)	
KS C 0228 : 2001	Basic environmental testing procedures- Part 2 : Tests, Test Z/AD : Composite temperature/humidity cyclic test	
KS C IEC 60068-2-1 : 2010	Environmental testing-Part 2-1 : Tests-Test A : Cold	
KS C IEC 60068-2-78 : 2002	Environmental testing-Part 2 : Tests-Test Cab : Damp heat, steady state	
IEC 60068-2-2 Ed.5.0 : 2007-07	Environmental testing-Part 2-2 : Tests-Test B : Dry heat	
IEC 60068-2-14 Ed.6.0 : 2009-01	Environmental testing-Part 2-14 : Tests-Test N : Change of temperature	<Exception> 9. Test Nc : Rapid change of temperature, two-fluid-bath method
IEC 60068-2-30 Ed.3.0 : 2005-08	Environmental testing-Part 2-30 : Tests-Test Db : Damp heat, cyclic(12h+12h cycle)	
IEC 60068-2-38 Ed.2.0 : 2009-1	Environmental testing-Part 2-38 : Tests-Test Z/AD : Composite temperature/humidity cyclic test	
IEC 60068-2-1 Ed.6.0 : 2007-03	Environmental testing-Part 2-1 : Tests-Test A : Cold	
IEC 60068-2-78 Ed.1.0 : 2001-08	Environmental testing-Part 2-78 : Tests-Test Cab : Damp heat, steady state	

End.