



Certificate of Compliance

Applicant: Standard Electric Works Co., Ltd.
Item: Earth Resistance Tester
Model No.: ST-1505
No. of Samples Tested: Three (3) sets
Report No: ETS-96264

This is to certify that, on the basis of the tests undertaken, the submitted samples of the above item is considered to comply with the requirements BSEN 61010-1: 1993/ IEC 1010-1: 1990.

Signed for and on behalf of
Inchcape Testing Services
Taiwan Ltd.

MICHAEL CHEN
MANAGER
ETL TESTING LABORATORIES



Date: November 25, 1996

CE Mark " SELF-DECLARATION" FORM

DECLARATION OF CONFORMITY

We

Standard Electric Works Co., Ltd.

(Suppliers Name)

106 Su Wei Road, Pan Chiao, Taipei Hsien, Taiwan, R.O.C.

(Address)

declare under our sole responsibility that the product

Earth Resistance Tester: ST-1505

(Name & Model)

to which this declaration relates is in conformity with the following standard(s)
or other normative document(s)

EN 50 082-1:1992

IEC 801-2:1984

IEC 801-3:1984

EN 55011:1991

EN 50 081-1:1992

BSEN 61010-1:1993/ IEC 1010-1:1990

BSEN 61010-2-31:1995

(title and/or number and date of issue of the standard(s) or other normative document(s))

(if applicable) following the provisions of **89/336/EEC**

73/23/EEC

TAIWAN JAN 04,1996 (EMC)

NOV. 25,1996 (LVD)

(Place and date of issue)

Directive

(name and signature of equivalent making of authorize person)



TEST REPORT

DATE : NOVEMBER 25, 1996

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APPLICANT:

STANDARD ELECTRIC WORKS CO., LTD.
NO. 106, SU WEI ROAD, PAN CHIAO,
TAIPEI HSIEN, TAIWAN, R.O.C.

SPECIFICATION:

~~THIS~~ REPORT IS BASED ON BSEN 61010-2-31: 1995 (PARTICULAR REQUIREMENTS FOR HAND-HELD PROBE ASSEMBLIES FOR ELECTRICAL MEASUREMENT AND TEST) IN CONJUNCTION WITH BSEN 61010-1: 1993/ IEC 1010-1: 1990 (SAFETY REQUIREMENTS FOR ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE).

SAMPLE DESCRIPTION:

THREE (3) SUBMITTED SAMPLES OF EARTH RESISTANCE TESTER (MODEL NO.: ST-1505) WITH MAXIMUM MEASURING EARTH RESISTANCE 1000 Ω , IT IS CLASS II AND INSTALLATION CATEGORY II PRODUCT, AND TEST LEAD WITH MAXIMUM MEASURING VOLTAGE 1200 VDC. THE PHOTO OF THE SAMPLES IS ATTACHED ON APPENDIX.

DATE RECEIVED : NOVEMBER 13, 1996
DATE TEST CONDUCTED : NOVEMBER 14, 1996 TO NOVEMBER 25, 1996

CONCLUSION:

THE SAMPLES OF THE ABOVE ITEM HAVE BEEN SUBJECTED TO THE TESTS DETAILED IN THIS REPORT AND ON THIS BASIS HAS BEEN FOUND TO COMPLY WITH THE REQUIREMENTS OF BSEN 61010-2-31:1995, IN CONJUNCTION WITH BSEN 61010-1: 1993/ IEC 1010-1: 1990, IN OUR OPINION MAY BE CONSIDERED TO COMPLY WITH THE ESSENTIAL SAFETY REQUIREMENTS OF THE LOW VOLTAGE DIRECTIVE, NO. 73/23/EEC.

TESTED BY:



ERIC LIN
PROJECT ENGINEER
INCHCAPE TESTING SERVICES

REVIEWED BY:



VINCENT TAN
TECHNICAL SUPERVISOR
INCHCAPE TESTING SERVICES

THIS REPORT IS SUBMITTED FOR THE EXCLUSIVE USE OF THE CLIENT TO WHOM IT IS ADDRESSED. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLE(S) AND TO THE COMPREHENSIVENESS OF THE TESTS, EXAMINATIONS OR SURVEYS MADE.

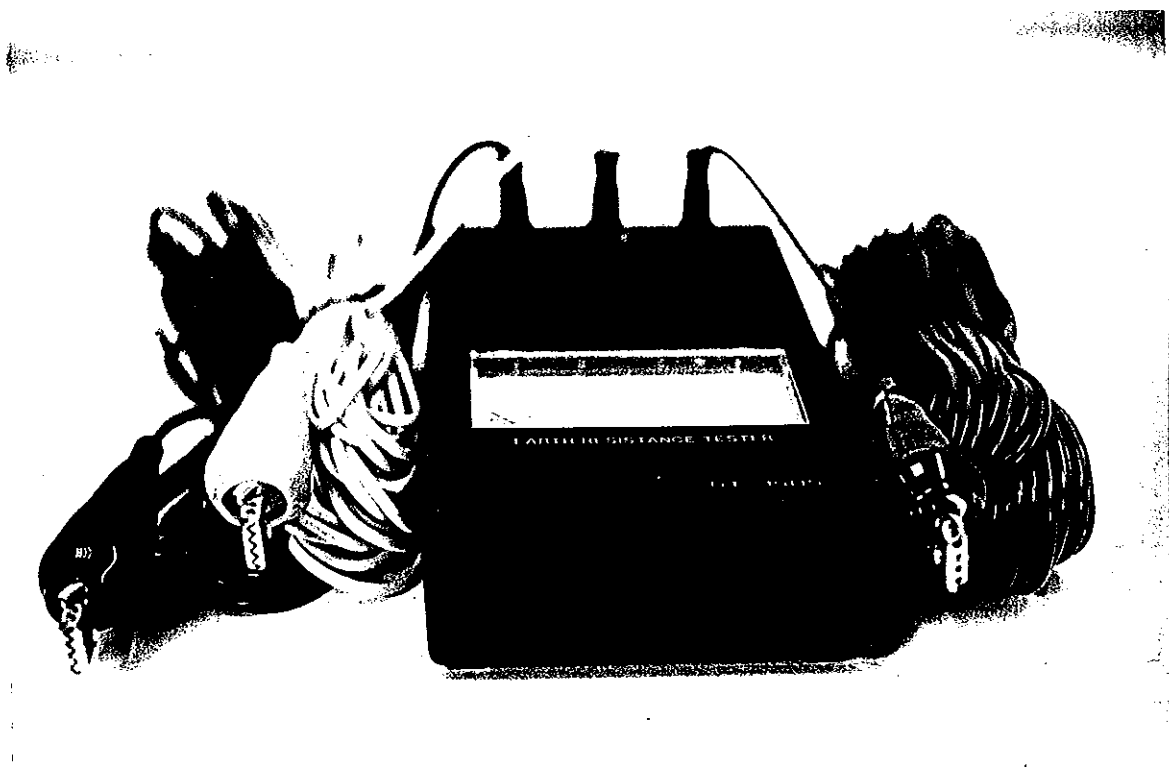


Inchcape Testing Services

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APPENDIX:





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TEST RESULT:

CLAUSE	TITLE / DESCRIPTION	RESULT
1	SCOPE AND OBJECT	--
2	NORMATIVE REFERENCES	--
3	DEFINITIONS	--
4	TESTS	--
5	MARKING AND DOCUMENTATION	COMPLIED
6	PROTECTION AGAINST ELECTRIC SHOCK	COMPLIED
7	PROTECTION AGAINST MECHANICAL HAZARDS	COMPLIED
8	MECHANICAL RESISTANCE TO SHOCK AND IMPACT	COMPLIED
9	EQUIPMENT TEMPERATURE LIMITS AND PROTECTION AGAINST THE SPREAD OF FIRE	COMPLIED
10	RESISTANCE TO HEAT	COMPLIED
11	PROTECTION AGAINST HAZARDS FROM FLUIDS	COMPLIED
12	PROTECTION AGAINST RADIATION, INCLUDING LASER SOURCES, AND AGAINST SONIC AND ULTRASONIC PRESSURE	NOT APPLICABLE
13	PROTECTION AGAINST LIBERATED GASES, EXPLOSION AND IMPLOSION	NOT APPLICABLE
14	COMPONENTS	COMPLIED
15	PROTECTION BY INTERLOCKS	NOT APPLICABLE
16	MEASURING CIRCUITS	NOT APPLICABLE

Electrostatic Discharge Measurement Results

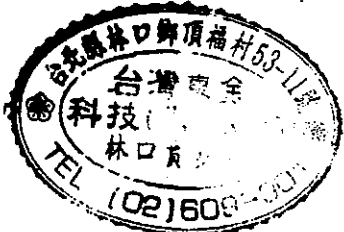
Taiwan Tokin EMC Eng. Corp.

Date: 85 / 1 / 3

Applicant: <u>LEW</u> EUT: <u>EARTH RESISTANCE TESTER</u> <u>M/N: ST-1505</u> Input Voltage: <u>230V, 50Hz</u> Working Condition: _____	Date of Measurement: <u>85 / 1 / 3</u> Temperature: <u>19</u> °C Humidity: <u>60</u> % Test Mode: _____
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Item	Amount of Discharge	Voltage	Results
Contact Discharge		+2KV, +4KV, +6KV, +8KV, + KV	Pass, Fail, Note
		-2KV, -4KV, -6KV, -8KV, + KV	Pass, Fail, Note
Air Discharge	180.	+2KV, +4KV, <u>+8KV</u> , +15KV, +10KV	<u>Pass</u> Fail, Note
		-2KV, -4KV, <u>-8KV</u> , -15KV, -10KV	<u>Pass</u> Fail, Note
Indirect Discharge (HCP)		+2KV, +4KV, +8KV, +15KV, + KV	Pass, Fail, Note
		-2KV, -4KV, -8KV, -15KV, - KV	Pass, Fail, Note
Indirect Discharge (VCP Front)		+2KV, +4KV, +8KV, +15KV, + KV	Pass, Fail, Note
		-2KV, -4KV, -8KV, -15KV, - KV	Pass, Fail, Note
Indirect Discharge (VCP Left)		+2KV, +4KV, +8KV, +15KV, + KV	Pass, Fail, Note
		-2KV, -4KV, -8KV, -15KV, - KV	Pass, Fail, Note
Indirect Discharge (VCP Back)		+2KV, +4KV, +8KV, +15KV, + KV	Pass, Fail, Note
		-2KV, -4KV, -8KV, -15KV, - KV	Pass, Fail, Note
Indirect Discharge (VCP Right)		+2KV, +4KV, +8KV, +15KV, + KV	Pass, Fail, Note
		-2KV, -4KV, -8KV, -15KV, - KV	Pass, Fail, Note

Measurement Position: _____

NOTE: <div style="text-align: center; margin-top: 10px;">  </div>	Measurement Equipment: ESD Simulator: <u>Keytek ESD-1</u> Test Engineer: <u>Ben Cheng</u>
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RF Field Strength Susceptibility Measurement Results

Taiwan Tokin EMC Eng. Corp.

Date: 85 01 / 03

Applicant: <u>Standard Electric Works</u> EUT: <u>Earth Resistance Tester</u> M/N: <u>ST-1505</u> Input Voltage: <u>DC 9 V</u> Hz Working Condition: _____	Test Mode: _____ Date of Measurement: _____ Temperature: <u>18</u> °C Humidity: <u>65</u> %
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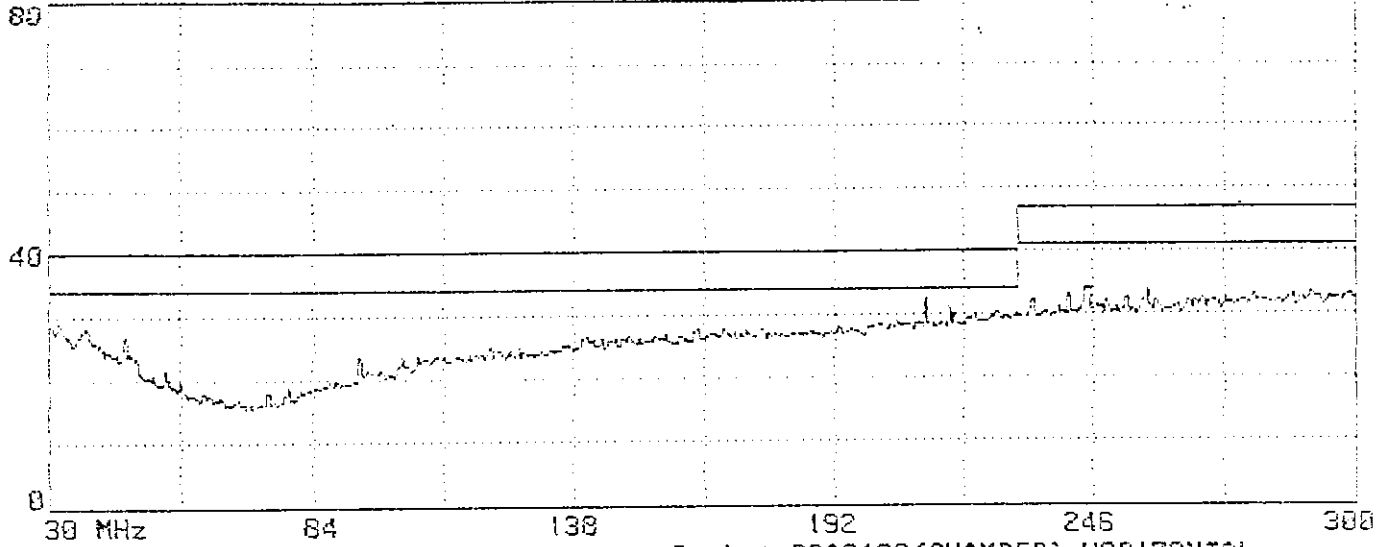
Frequency Range (MHz)	Position (Angle)	Polarity (H or V)	Field Strength (V/M)	Results	Remark
27-80	F	H	3 (Unmodulated)	(Pass) Fail, Note	
27-80	R	H	3 (Unmodulated)	(Pass) Fail, Note	
27-80	B	H	3 (Unmodulated)	(Pass) Fail, Note	
27-80	L	H	3 (Unmodulated)	(Pass) Fail, Note	
27-80	F	V	3 (Unmodulated)	(Pass) Fail, Note	
27-80	R	V	3 (Unmodulated)	(Pass) Fail, Note	
27-80	B	V	3 (Unmodulated)	(Pass) Fail, Note	
27-80	L	V	3 (Unmodulated)	(Pass) Fail, Note	
80-500	F	H	3 (Unmodulated)	(Pass) Fail, Note	
80-500	R	H	3 (Unmodulated)	(Pass) Fail, Note	
80-500	B	H	3 (Unmodulated)	(Pass) Fail, Note	
80-500	L	H	3 (Unmodulated)	(Pass) Fail, Note	
80-500	F	V	3 (Unmodulated)	(Pass) Fail, Note	
80-500	R	V	3 (Unmodulated)	(Pass) Fail, Note	
80-500	B	V	3 (Unmodulated)	(Pass) Fail, Note	
80-500	L	V	3 (Unmodulated)	(Pass) Fail, Note	

NOTE: 1. Polarity: H-- Horizontal ANT.
 V-- Vertical ANT.

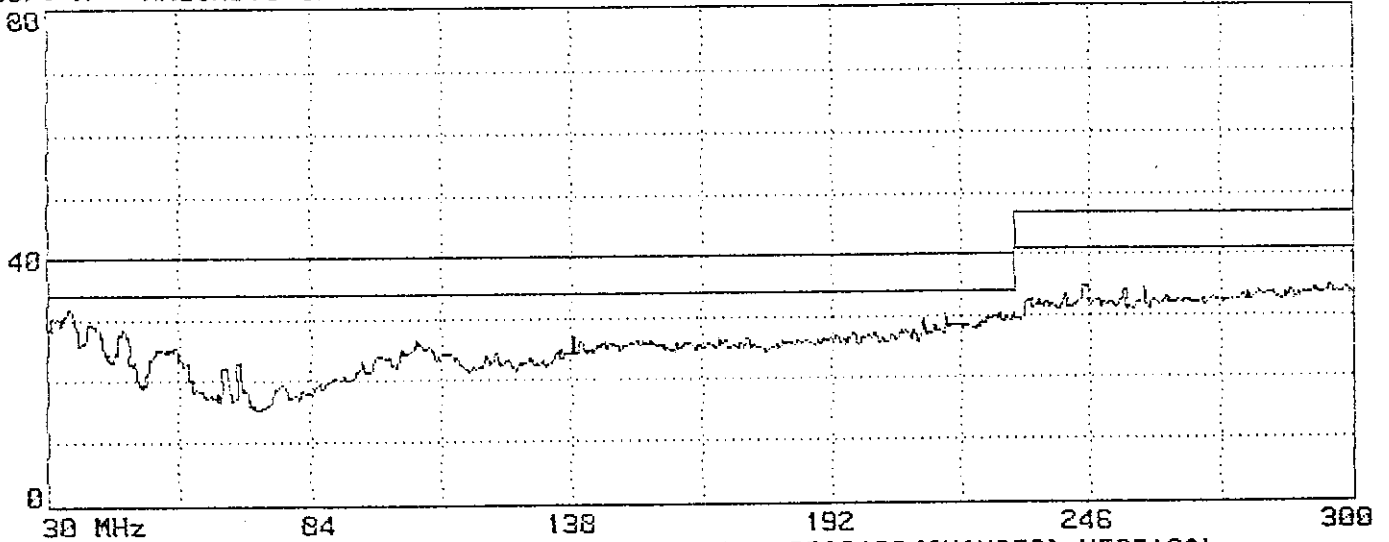


Measurement Equipment:
 Signal Generator: MACONI 2031
 Power Amplifier: A&R
 Power Antenna: EMCO 3108 / A&R AT 100
 Field Strength Sensor: A&R
 Field Strength Meter: A&R

Operator Signed: [Signature]

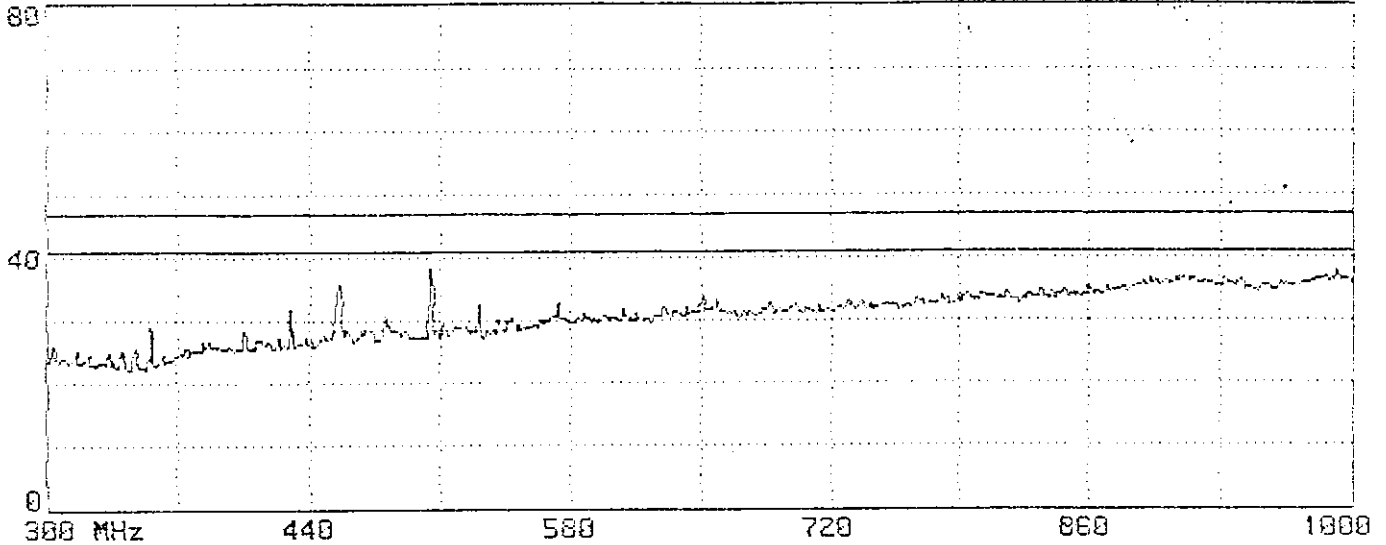


Limit : CISPR CLASS-B 3m Probe: BBA9106 (CHAMBER) HORIZONTAL
EUT : EARTH RESISTANCE M/N:ST-1505 Power: DC 9V
Margin: 6dB Standard: 0 Trace: 1, 0, 0, 0, 0
Memo :



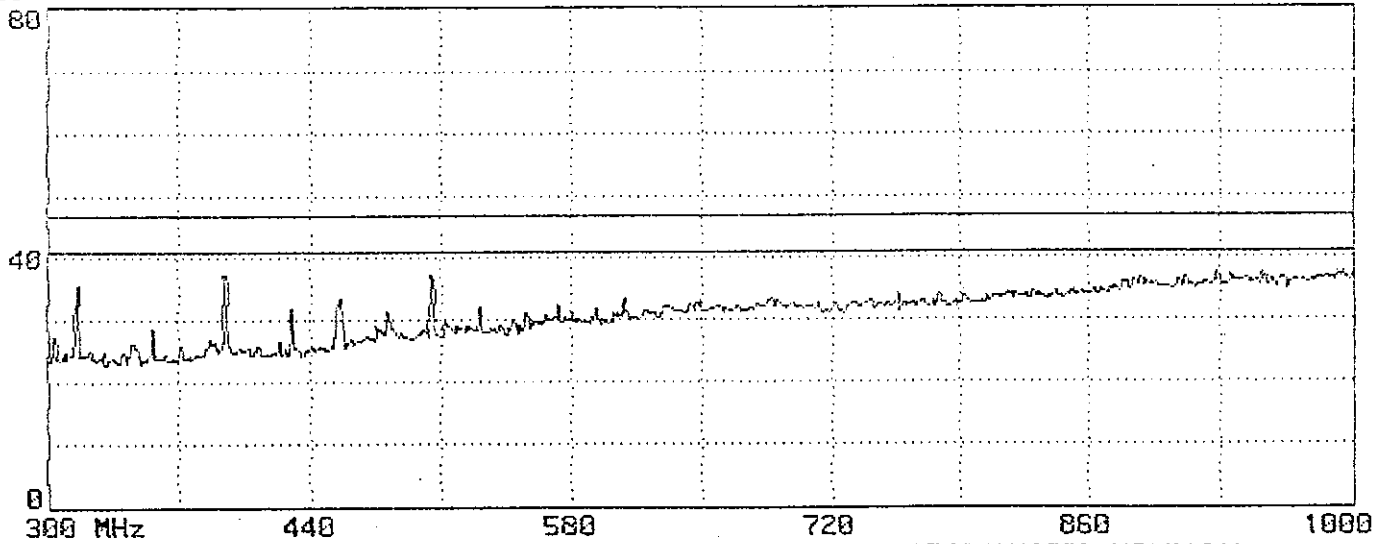
Limit : CISPR CLASS-B 3m Probe: BBA9106 (CHAMBER) VERTICAL
EUT : EARTH RESISTANCE M/N:ST-1505 Power: DC 9V
Margin: 6dB Standard: 0 Trace: 2, 0, 0, 0, 0
Memo :





Limit : CISPR CLASS-B 3m
EUT : EARTH RESISTANCE M/H:ST-1585
Margin: 6dB Standard: 0
Memo :

Probe: UHALP9107(CHAMBER) HORIZONTAL
Power: DC 9V
Trace: 3, 0, 0, 0, 0



Limit : CISPR CLASS-B 3m
EUT : EARTH RESISTANCE M/H:ST-1585
Margin: 6dB Standard: 0
Memo :

Probe: UHALP9107(CHAMBER) VERTICAL
Power: DC 9V
Trace: 4, 0, 0, 0, 0

