SWS150

TEST DATA IEC61000 SERIES

DWG No. CA732-58-01)1
QA APPD	APPD	CHK	DWG
135.29		Jackson 21-May-53	Joe 21-May'03

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^{*} Test results are typical data. Nevertheless the following results are considered to be actual capability data because all units have nearly the same characteristics.

1. Electrostatic Discharge Immunity Test (IEC61000-4-2)

MODEL: SWS150-5

(1) Equipment Used

Electro Static Discharge Simulator : NSG435 (SCHAFFNER) Discharge Resistance : 330Ω Capacity : 150pF

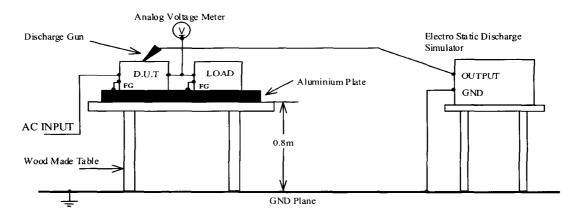
(2) Test Conditions

• Ambient Temperture : 25°C

(3) Test Method and Device Test Point

Contact Discharge : FG, Case Screw

Air Discharge : Input and Output Terminal



(4) Acceptable Conditions

- 1. Output voltage regulation not to exceed $\pm 5\%$ of initial (before test) value during test.
- 2. Output voltage to be within regulation specification after the test.
- 3. Along with 1 and 2, no discharge of fire or smoke, as well as no output failure.

Contact Discharge (kV)	SWS150-5	Air Discharge (kV)	SWS150-5
4	PASS	8	PASS

2. Radiated Radio-Frequency Electromagnetic Field Immunity Test (IEC61000-4-3)

MODEL: SWS150-5

(1) Equipment Used

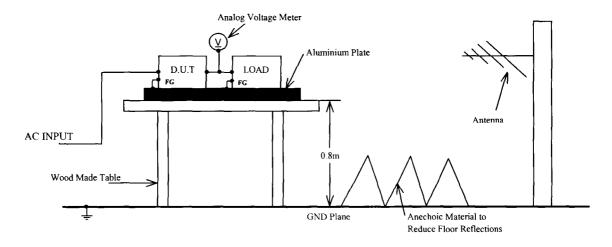
SML 03(RS CORPORATION)
HL 046(RS CORPORATION)
AR500W 1000A(AR CORPORATION)
FM5004(AR CORPORATION)
FP6001(AR CORPORATION)

(2) Test Conditions

• Distance : 2.4m • Wave Angle : Horizontal and Vertical

Sweep Condition : 1.0% Step Up, 2.8 Seconds Hold
 Test Angle : Top/Bottom, Both Sides, Front/Back

(3) Test Method



(4) Acceptable Conditions

- 1. Output voltage regulation not to exceed ±5% of initial (before test) value during test.
- 2. Output voltage to be within regulation specification after the test.

Radiation Field Strength (V/m)	SWS150-5	
10	PASS	

3. Electrical Fast Transient / Burst Immunity Test (IEC61000-4-4)

MODEL: SWS150-5

(1) Equipment Used

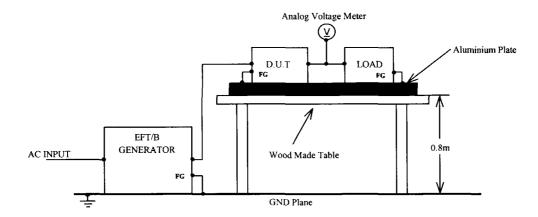
EFT/B Generator : FNS-100L (NOISEKEN)

(2) Test Conditions

Number of tests : 3 times

(3) Test Method and Device Test Point

Apply to (N,L,FG), (NL), (N), (L), (FG)



(4) Acceptable Conditions

- 1. Output voltage regulation not to exceed ±5% of initial (before test) value during test.
- 2. Output voltage to be within output voltage regulation specification after the test.
- 3. Along with 1 and 2, no discharge of fire or smoke, as well as no output failure.

Test Voltage (kV)	Repetition Rate (kHz)	SWS150-5
0.5	5	PASS
1.0	5	PASS
2.0	5	PASS

4. Surge Immunity Test (IEC 61000-4-5)

MODEL: SWS150-5

(1) Equipment Used

Surge Generator : NSG651 (SCHAFFNER)

Coupling Impedance : Common 12Ω Coupling Capacitance : Common 9uF

Normal 2Ω

Normal 18uF

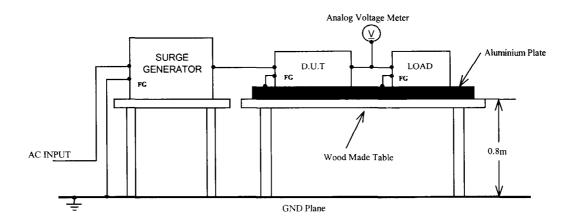
(2) Test Conditions

Polarity : + , Mode : Common, Normal

Phase : 0, 90 deg
 Ambient Temperature : 25°C

(3) Test Method and Device Test Point

Apply to Common mode(N-FG, L-FG) and Normal mode(N-L)



(4) Acceptable Conditions

- 1. Output voltage regulation not to exceed ±5% of initial (before test) value during test.
- 2. Output voltage to be within regulation specification after the test.
- 3. Along with 1 and 2, no discharge of fire or smoke, as well as no output failure.

Test Voltage (kV) Common	SWS150-5	Test Voltage (kV) Normal	SWS150-5
0.5	PASS	0.5	PASS
1.0	PASS	1.0	PASS
2.0	PASS	2.0	PASS
4.0	PASS		

5. Conducted Disturbances Induced by Radio-Frequency Field Immunity Test (IEC61000-4-6)

MODEL: SWS150-5

(1) Equipment Used

RF POWER AMPLIFIER (AR U.S.A)

SIGNAL GENERATOR IFR 2023A (IFR U.K)

(2) Test Conditions

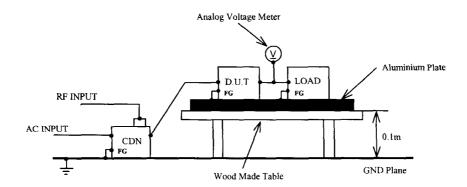
• Input Voltage : 230VAC • Output Voltage : Rated

Output Current : 100%
 Electromagnetic Frequency : 150kHz~80MHz

• Sweep Condition : 1.0% Step Up, 2.8 Seconds Hold

• Ambient Temperature : 25°C

(3) Test Method



(4) Acceptable Conditions

- 1. Output voltage regulation not to exceed ±5% of initial (before test) value during test.
- 2. Output voltage to be within regulation specification after the test.

Voltage Level (V)	SWS150-5	
10	PASS	