



APPLICATION FOR ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

On Behalf of

KST MEIZHOU COMPANY LIMITED

Brush Servo

Model No.: X20-8.4-50, X20-8.4-50-180F, DS525MG, DS725MG, DS1509MG, DS2509MG, DS3509MG, FZ825, FZ835, MS725, MS4512, MS3509, MR3509, CM633, CM653, CM3510MG, CM5018WP, CM520MG, CM530MG, DS730MG, DS735MG, CM4315MG

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TEST REPORT DECLARATION

Applicant : KST MEIZHOU COMPANY LIMITED
Address : Building B, Jinhang Science and Technology Park, No. 3 Luole East Road,
Meizhou Economic Development Zone, Meijiang District, Meizhou, Guangdong
Manufacturer : KST MEIZHOU COMPANY LIMITED
Address : Building B, Jinhang Science and Technology Park, No. 3 Luole East Road,
Meizhou Economic Development Zone, Meijiang District, Meizhou, Guangdong
EUT Description : Brush Servo

(A) Model No. : X20-8.4-50, X20-8.4-50-180F, DS525MG, DS725MG,
DS1509MG, DS2509MG, DS3509MG, FZ825, FZ835, MS725,
MS4512, MS3509, MR3509, CM633, CM653, CM3510MG,
CM5018WP, CM520MG, CM530MG, DS730MG, DS735MG,
CM4315MG

(B) Trademark : **KST**[®]

Measurement Standard Used:

EN 55032:2015+A11:2020+A1:2020

EN IEC 61000-3-2:2019+A1:2021+A2:2024

EN 55035:2017+A11:2020

EN 61000-3-3:2013+A1:2019+A2:2021

Test Result : PASS

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the EN 55032, EN 55035, EN IEC 61000-3-2 and EN 61000-3-3 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....: Eve Hu
Test Engineer

Eve Hu

Approved by (name + signature).....: Simple Guan
Project Manager

Simple Guan

Date of issue.....: September 10, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	September 10, 2025	Initial released Issue	Eve Hu



1. General Information

1.1. Description of Device (EUT)

Description : Brush Servo

Model Number : X20-8.4-50, X20-8.4-50-180F, DS525MG, DS725MG, DS1509MG, DS2509MG, DS3509MG, FZ825, FZ835, MS725, MS4512, MS3509, MR3509, CM633, CM653, CM3510MG, CM5018WP, CM520MG, CM530MG, DS730MG, DS735MG, CM4315MG

Diff : There is no difference except the name of the model. All tests are made with the CM3510MG model.

Test Voltage : DC 8.4V from DC Power
DC 7.4V from DC Power
DC 6V from DC Power

EUT information : Input: DC 6V, 7.4V, 8.4V

Highest frequency : More than 108MHz

Trademark : N/A

Software version : N/A

Hardware version : N/A

1.2. Accessories of Device (EUT)

Power Source : N/A

Model : N/A

Input : N/A

Output : N/A

1.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number
1.	/	/	/	/
2.	/	/	/	/
3.	/	/	/	/
4.	/	/	/	/
5.	/	/	/	/

1.4. Block Diagram of connection between EUT and simulators

For Test



Signal Cable Description of the above Support Units					
No.	Port Name	Cable	Length	Shielded (Yes or No)	Detachable (Yes or No)
(1)	/	/	/	/	/

2. Summary Of Standards And Results

2.1. Description of Standards and Results

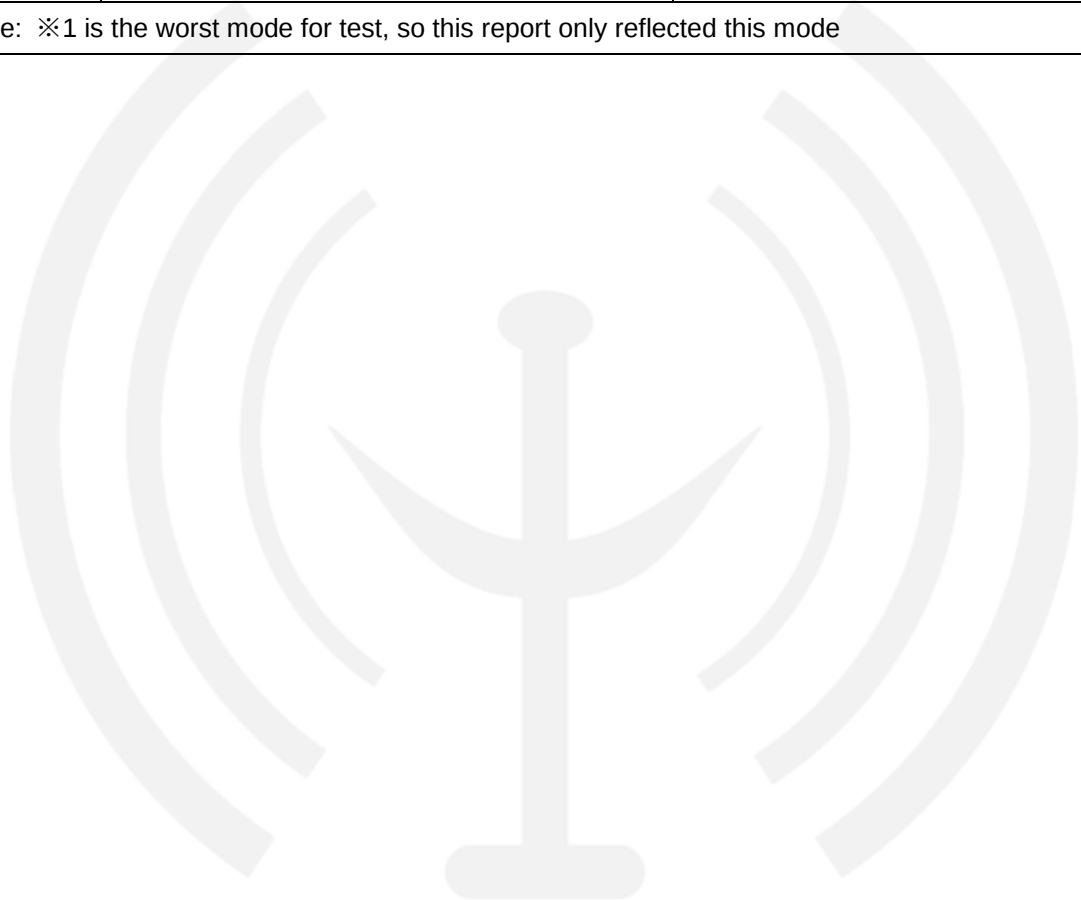
The EUT have been tested according to the applicable standards as referenced below:

EMISSION			
Description of Test Item	Standard	Limits	Results
Radiated Emissions	EN 55032:2015+A11:2020+A1:2020	Annex A.2	P
Radiated Emissions From FM Receivers	EN 55032:2015+A11:2020+A1:2020	Annex A.2	N/A
Conducted Emissions From The AC Mains Power Ports	EN 55032:2015+A11:2020+A1:2020	Annex A.3	N/A
Conducted Emissions From Asymmetric Mode	EN 55032:2015+A11:2020+A1:2020	Annex A.3	N/A
Conducted Differential Voltage Emissions	EN 55032:2015+A11:2020+A1:2020	Annex A.3	N/A
Harmonic current emissions	EN IEC 61000-3-2:2019+A1:2021+A2:2024	Section 7	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013+A1:2019+A2:2021	Section 5	N/A

IMMUNITY (EN 55035:2017+A11:2020)				
Description of Test Item	Standard	Performance Criteria	Observation Criteria	Results
Electrostatic discharge (ESD)	IEC 61000-4-2:2008	B	A	P
Continuous RF electromagnetic field disturbances	IEC 61000-4-3:2006+A1:2007+A2:2010	A	A	P
Electrical fast transient (EFT)	IEC 61000-4-4:2012	B	N/A	N/A
Surge (Input a.c. power port)	IEC 61000-4-5:2014+A1:2017	B	N/A	N/A
Surge(Telecommunication port)		B	N/A	N/A
Continuous induced RF disturbances	IEC 61000-4-6:2023	A	N/A	N/A
Broadband impulsive conducted disturbances		A	N/A	N/A
Power frequency magnetic field	IEC 61000-4-8:2009	A	N/A	N/A
Voltage dips, >95% reduction	IEC 61000-4-11:2020	B	N/A	N/A
Voltage dips, 30% reduction		C	N/A	N/A
Voltage interruptions, >95% reduction		C	N/A	N/A
Note:	1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable. 4. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.			

2.2. Test Mode Description

For EMI&EMS Tests		
No.	Test Mode	Test Voltage
※1.	Working	DC 8.4V from DC Power
2.	Standby	DC 8.4V from DC Power
3.	Working	DC 7.4V from DC Power
4.	Standby	DC 7.4V from DC Power
5.	Working	DC 6V from DC Power
6.	Standby	DC 6V from DC Power
Note: ※1 is the worst mode for test, so this report only reflected this mode		



2.3. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

2.4. Measurement Uncertainty

Test Item	Uncertainty	U_{cispr}
Uncertainty for Conduction emission test	2.13dB	3.8 dB
Uncertainty for Radiation Emission test (<1G)	4.51dB	5.2 dB
Uncertainty for Radiation Emission test (>1G)	5.07dB	5.2 dB
(95% confidence levels, k=2)		

2.5. Test Equipment List

For Power Line Conducted Emission Test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2024.12.18	1 Year
2.	L.I.S.N.	Rohde&Schwarz	ENV 216	102282	/	2024.12.18	1 Year
3.	L.I.S.N.	RFT	NNB111	13835240	/	2024.12.18	1 Year

For Frequency Range 30MHz~1GHz Radiated Emission Test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	/	/	2022.12.20	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2024.12.18	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB 9168	01448	/	2025.01.02	2 Year
4.	6dB Fixed Attenuator	SKET	AP_DC01G-2W-N-6dB	SK2020053101	/	2024.12.18	1 Year

For Frequency Range above 1GHz Radiated Emission Test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	/	/	2022.12.20	3 Year
2.	Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101648	3.70	2024.12.18	1 Year
3.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
4.	Amplifier	SKET	LNPA_0118G-50	SK2022032901	/	2024.12.18	1 Year

For Harmonic Test and Flicker Test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	H/F test system	LAPLACE	AC2000	556569	4.42 SP3	2024.12.18	1 Year

For Electrostatic Discharge Test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	ESD Tester	ETEST	ES-ESD-30	ESD-21012	/	2024.12.18	1 Year

For RF Field Strength Susceptibility Test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	Analog signal generator	Agilent	N5181A	2024.03.29	A.01.87	2024.12.18	1 Year
2.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.0 2-117725-vh	/	2024.12.18	1 Year
3.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.0 2-1111533-Fz	/	2024.12.18	1 Year
4.	Isotropic Electric Field Probe	narda	EP-601	511WX60706	/	2024.12.18	1 Year
5.	High Gain Antenna	Schwarzbeck	STLP9129	00203	/	/	/
6.	RF Power Amplifier	SKET	RITS_80M06 G	RITS800604	/	/	/

For Electrical fast transient Test and Surge test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	Pulse Surge Generator	ETEST	ES-4516A	ES-4516A-220204	1.3	2024.12.18	1 Year
2.	Capacitive Coupling Clamp	ETEST	ES-EFTC	/	/	2024.12.18	1 Year

For Dips Test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	Voltage Dips Simulator	ETEST	ES-1113A	221024	/	2024.12.18	1 Year

For Radio-frequency, Continuous conducted disturbance test Equipment:

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	Conducted Immunity Test System (RF-Generator)	SKET	CITS_150k2 30M-75W	202302438	/	2024.12.18	1 Year
2.	Fixed Coaxial Attenuator(6dB Attenuation)	SKET	WDTS100-6-4-B	221122225	/	2024.12.18	1 Year
3.	Coupling-Decoupling Network (CDN)	SKET	CDN_150K2 30M-M2/M3-16A	221122169	/	2024.12.18	1 Year
4.	Coupling-Decoupling Network (CDN)	SKET	CDN_150K8 0M-T8	221122178	/	2024.12.18	1 Year
5.	Electromagnetic Injection Clamp (EMC-Clamp)	Prima	PECL-100	PCM3510MG 0181456	/	2024.12.18	1 Year

For Test Software Information

Item	Software Name	Manufacturer	Version
RE	EZ-EMC	Farad	PSI-3A1
CE	EZ-EMC	Farad	PSI-3A1

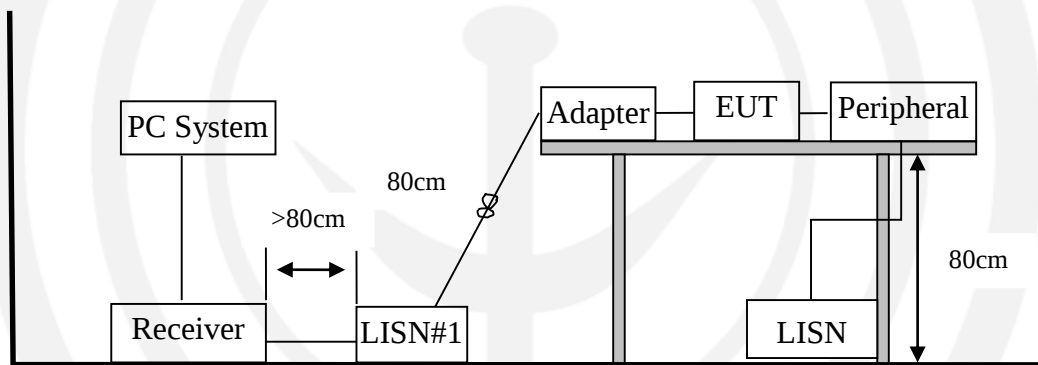
3. Conducted Emissions From The AC Mains Power Ports Test

3.1. Test Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

- Notes:
1. Emission level=Read level + LISN factor-Preamp factor + Cable loss
 2. * Decreasing linearly with logarithm of frequency.
 3. The lower limit shall apply at the transition frequencies.

3.2. Block Diagram of Test Setup



3.3. Configuration of EUT on Test

The following equipment are installed on conducted disturbance at mains terminals to meet the EN 55032 requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 3.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

3.5. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to EN 55032 on Conducted Disturbance at Mains Terminals test.
- (2) The frequency range from 150kHz to 30MHz is checked, the bandwidth of test receiver (R&S TEST RECEIVER ESCI) is set at 9kHz.
- (3) The test results are reported on Section 3.6.

3.6. Conducted Emissions From The AC Mains Power Ports Test Results

EUT	: Brush Servo	Test Date	: N/A
M/N	: CM3510MG	Temperature	: N/A
Test Engineer	: N/A	Humidity	: N/A
Test Voltage	: N/A	Pressure	: N/A
Test Mode	: N/A		
Test Results	: N/A		
Note: Not applicable for equipment operated with battery or DC power supply			



4. Radiated Emissions Test

4.1. Test Limit

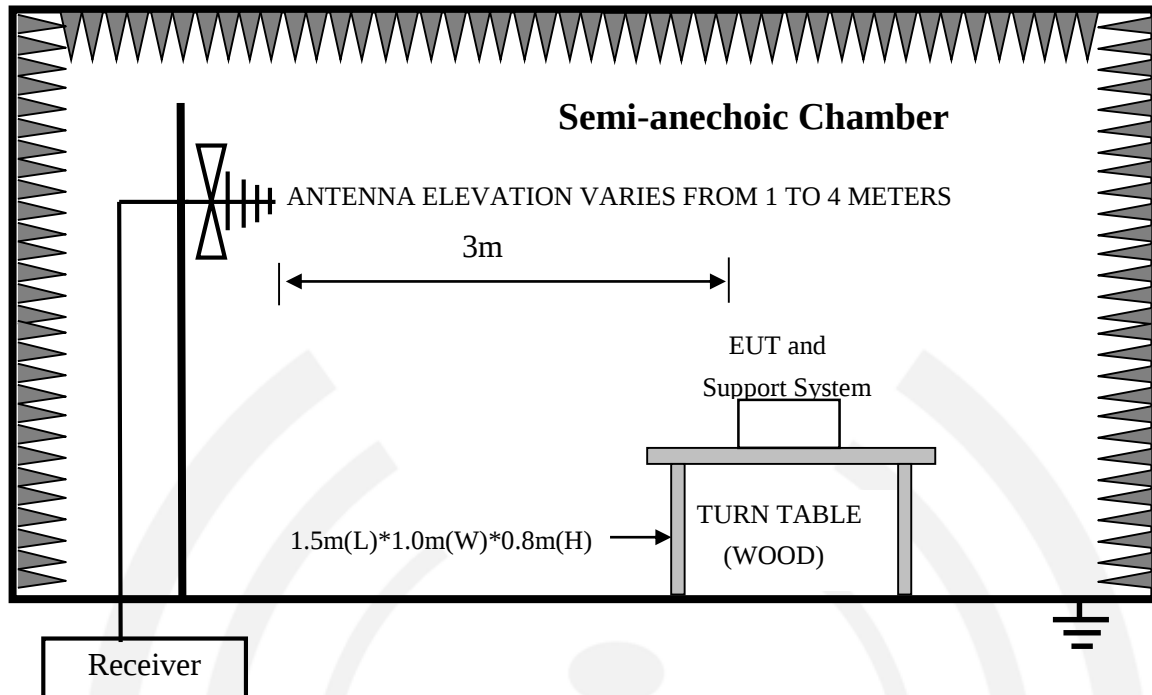
Frequency MHz			Distance (Meters)	Field Strengths Limits dB(μV)/m
30	~	230	3	40
230	~	1000	3	47
1000	~	3000	3	70(Peak) 50(Average)
3000	~	6000	3	74(Peak) 54(Average)

- Notes:
1. Emission level = Read level + Antenna Factor - Preamp Factor + Cable Loss
 2. The smaller limit shall apply at the cross point between two frequency bands.
 3. Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 4. Frequency range of radiated measurements:

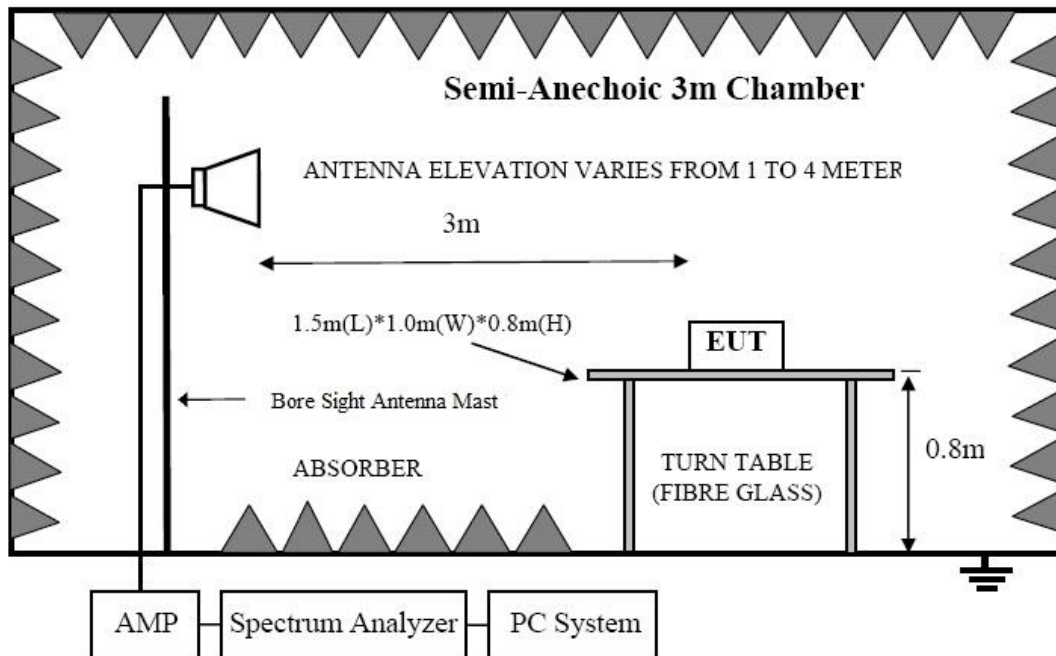
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 6 GHz, whichever is lower.

4.2. Block Diagram of Test Setup

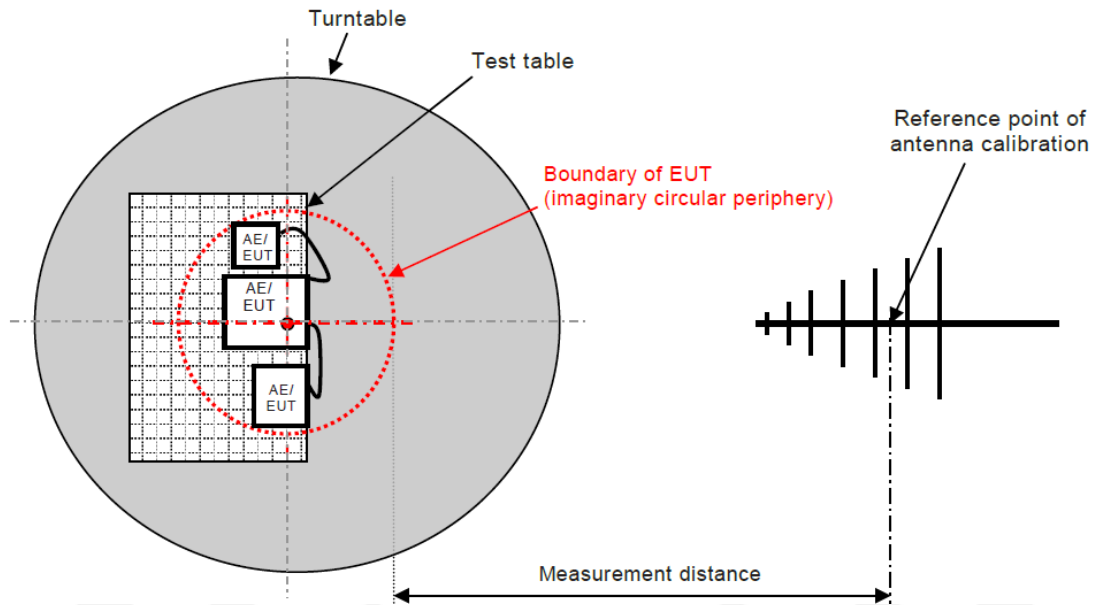
In Semi Anechoic Chamber (3m) Test Setup Diagram for 30MHz~1000MHz



In Semi Anechoic Chamber (3m) Test Setup Diagram for Above 1GHz



For 3m distance description:



4.3. Configuration of EUT on Test

The following equipment are installed on Radiated Emission Test to meet the EN 55032 requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

4.4. Operating Condition of EUT

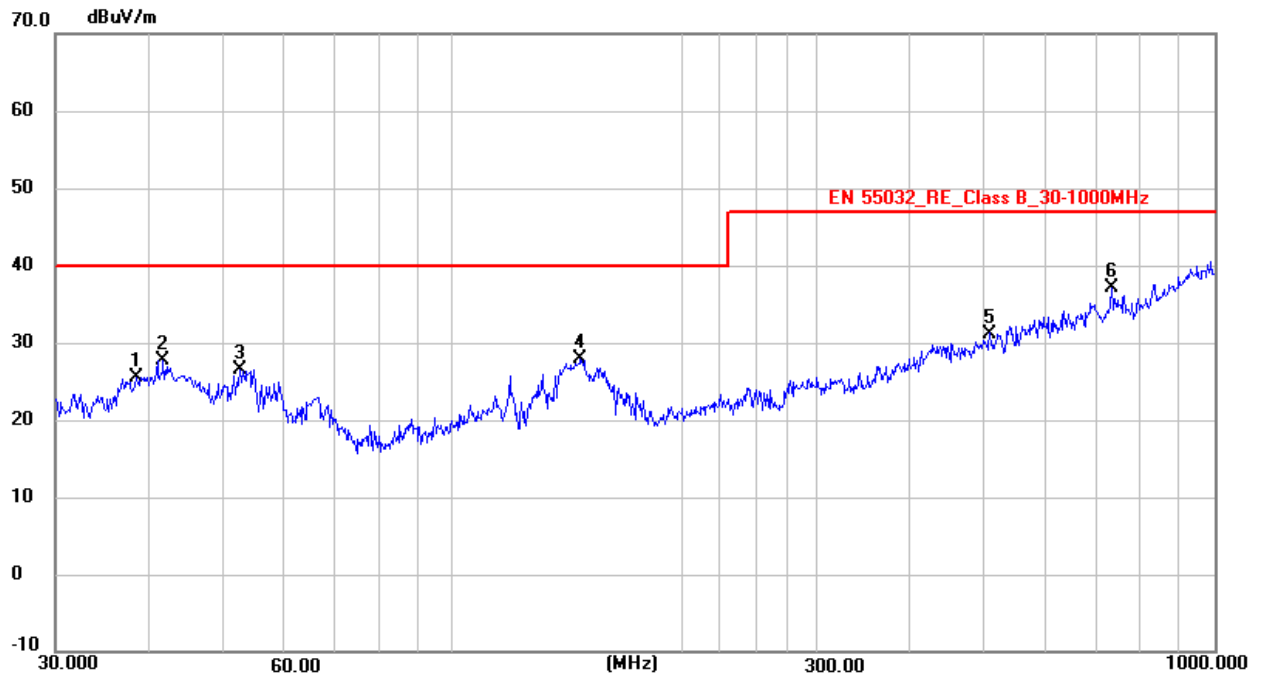
- (1) Setup the EUT as shown as Section 4.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

4.5. Test Procedure

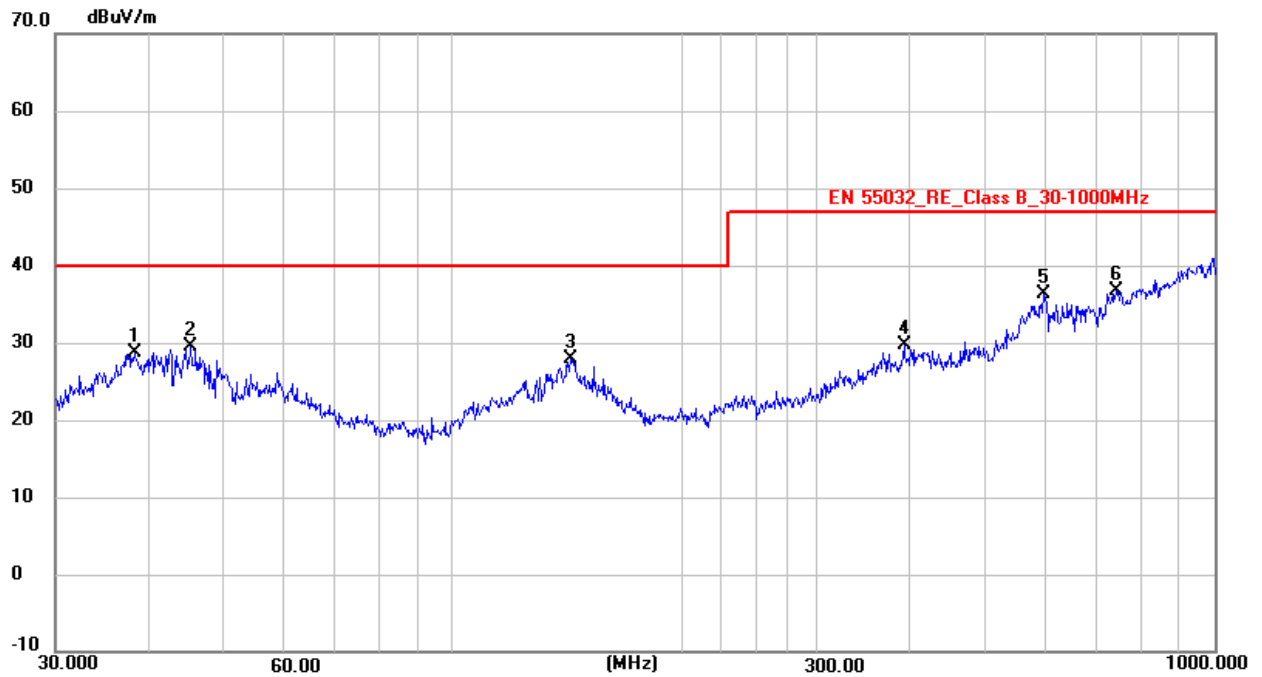
- (1) The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all the interface cables were changed according to EN 55032 on Radiated Disturbance test.
- (2) The frequency range from 30MHz to 1000MHz is checked, the bandwidth of test receiver (R&S TEST RECEIVER) is set at 120kHz.
- (3) The resolution bandwidth of the R&S Spectrum Analyzer FSV40-N was set at 1MHz. (For above 1GHz)
- (4) The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values, all measurement distance is 3m in 3m semi anechoic chamber.
- (5) The frequency range from 1GHz to 6GHz was checked with peak and average detector, measurement distance is 3m in 3m chamber.
- (6) The test results are reported on Section 4.6.

4.6. Radiated Emissions Test Results

For below 1G radiated disturbance test result:			
EUT	:	Brush Servo	Test Date : 2025.09.09
M/N	:	CM3510MG	Temperature : 24℃
Test Engineer	:	Eve Hu	Humidity : 56%
Test Voltage	:	DC 8.4V from DC Power	Pressure : 101.6Kpa
Test Mode	:	Mode1	
Test Results	:	PASS	
Note: 1. The test results are listed in next pages. 2. This mode is worst case mode, so this report only reflected the worst mode. 3. If the limits for the measurement with the quasi-peak detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet limits and the measurement with the quasi-peak detector need not be carried out.			

Antenna polarity: Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.3630	11.11	14.33	25.44	40.00	-14.56	peak
2	41.5852	13.17	14.50	27.67	40.00	-12.33	peak
3	52.3911	12.60	13.90	26.50	40.00	-13.50	peak
4	147.3390	13.75	14.07	27.82	40.00	-12.18	peak
5	506.9232	10.85	20.35	31.20	47.00	-15.80	peak
6 *	733.8477	12.02	25.13	37.15	47.00	-9.85	peak

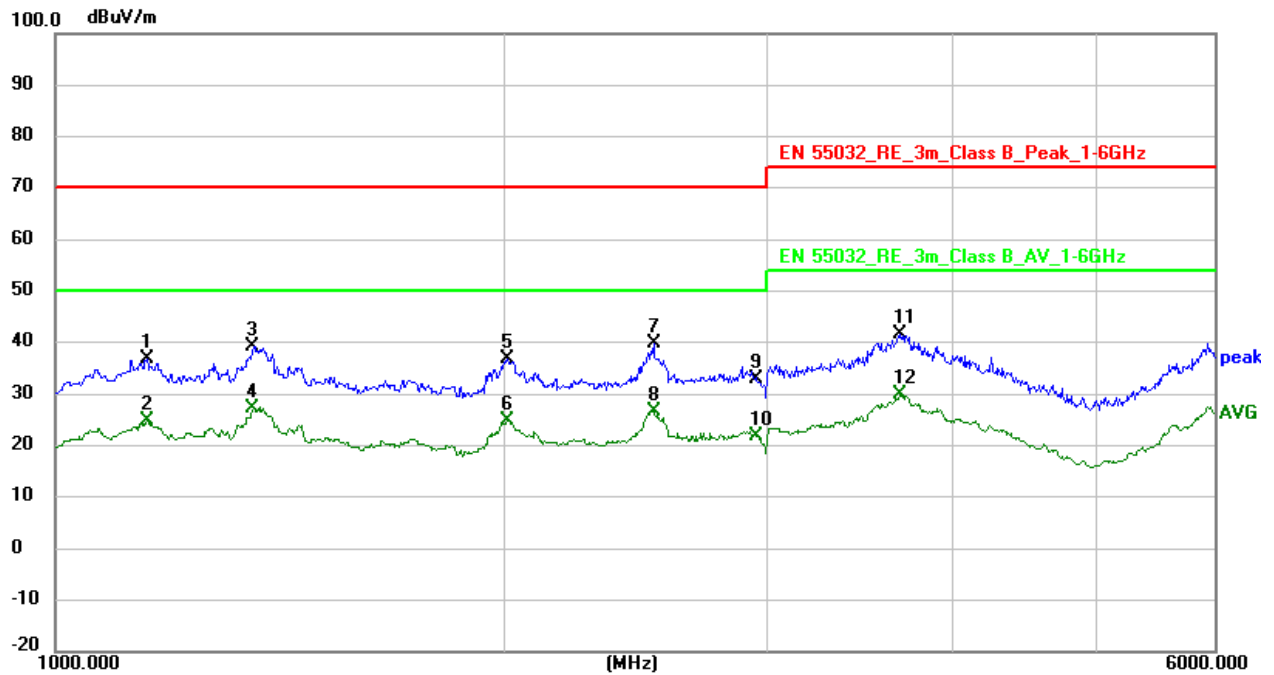
Antenna polarity: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.0950	14.50	14.29	28.79	40.00	-11.21	peak
2	45.3158	15.17	14.34	29.51	40.00	-10.49	peak
3	142.3865	13.90	13.96	27.86	40.00	-12.14	peak
4	391.9232	12.30	17.50	29.80	47.00	-17.20	peak
5	595.3935	13.59	22.76	36.35	47.00	-10.65	peak
6 *	743.5611	11.38	25.31	36.69	47.00	-10.31	peak

For above 1G radiated emissions test result:

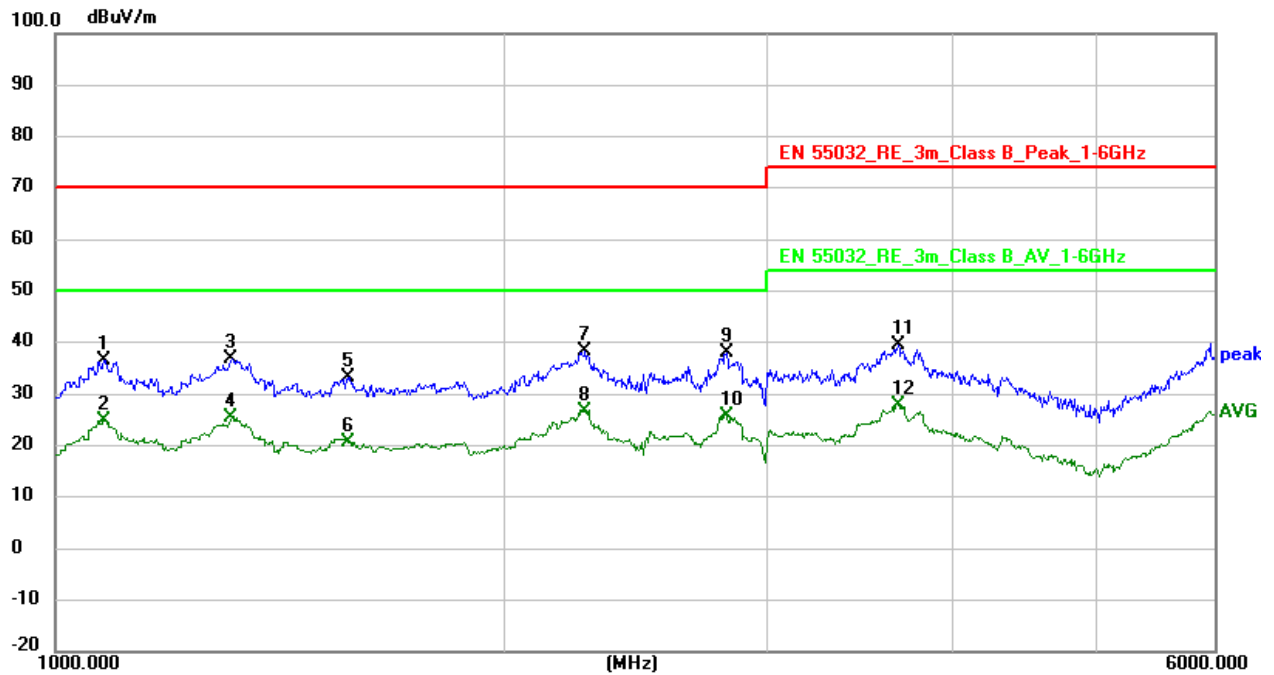
EUT	: Brush Servo	Test Date	: 2025.09.09
M/N	: CM3510MG	Temperature	: 24℃
Test Engineer	: Eve Hu	Humidity	: 56%
Test Voltage	: DC 8.4V from DC Power	Pressure	: 101.6Kpa
Test Mode	: Mode1		
Test Results	: PASS		
Note:	1. The test results are listed in next pages. 2. This mode is worst case mode, so this report only reflected the worst mode. 3. If the limits for the measurement with the quasi-peak detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet limits and the measurement with the quasi-peak detector need not be carried out.		

Antenna polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1152.057	64.57	-27.58	36.99	70.00	-33.01	peak
2	1152.057	52.46	-27.58	24.88	50.00	-25.12	AVG
3	1358.513	66.69	-27.51	39.18	70.00	-30.82	peak
4 *	1358.513	54.79	-27.51	27.28	50.00	-22.72	AVG
5	2010.000	64.08	-27.27	36.81	70.00	-33.19	peak
6	2010.000	52.19	-27.27	24.92	50.00	-25.08	AVG
7	2520.000	65.65	-25.72	39.93	70.00	-30.07	peak
8	2520.000	52.52	-25.72	26.80	50.00	-23.20	AVG
9	2955.000	57.30	-24.40	32.90	70.00	-37.10	peak
10	2955.000	46.24	-24.40	21.84	50.00	-28.16	AVG
11	3680.000	64.24	-22.70	41.54	74.00	-32.46	peak
12	3680.000	52.66	-22.70	29.96	54.00	-24.04	AVG

Antenna polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1078.158	64.28	-27.59	36.69	70.00	-33.31	peak
2	1078.158	52.42	-27.59	24.83	50.00	-25.17	AVG
3	1313.043	64.22	-27.52	36.70	70.00	-33.30	peak
4	1313.043	53.05	-27.52	25.53	50.00	-24.47	AVG
5	1573.520	60.64	-27.44	33.20	70.00	-36.80	peak
6	1573.520	48.14	-27.44	20.70	50.00	-29.30	AVG
7	2265.000	64.77	-26.49	38.28	70.00	-31.72	peak
8 *	2265.000	53.17	-26.49	26.68	50.00	-23.32	AVG
9	2820.000	62.78	-24.81	37.97	70.00	-32.03	peak
10	2820.000	50.56	-24.81	25.75	50.00	-24.25	AVG
11	3675.000	62.29	-22.72	39.57	74.00	-34.43	peak
12	3675.000	50.66	-22.72	27.94	54.00	-26.06	AVG

5. Harmonic Current Test

5.1. Test Limit

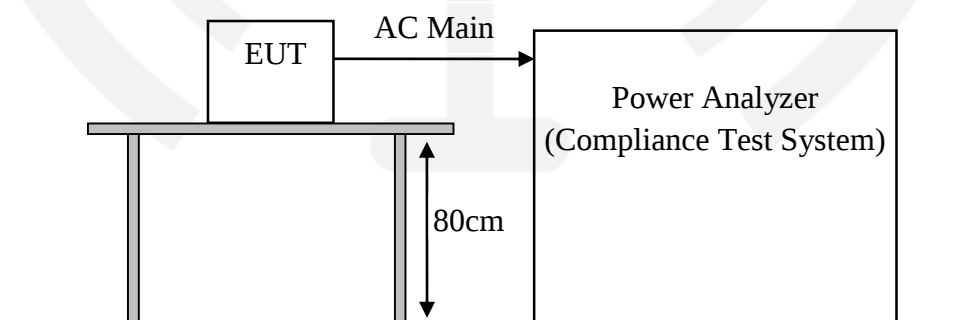
For Class A equipment:

Harmonic order n	Maximum permissible harmonic current A
Odd harmonics	
3	2,30
5	1,14
7	0,77
9	0,40
11	0,33
13	0,21
$15 \leq n \leq 39$	$0,15 \frac{15}{n}$
Even harmonics	
2	1,08
4	0,43
6	0,30
$8 \leq n \leq 40$	$0,23 \frac{8}{n}$

for Class B equipment:

The harmonics of the input current shall not exceed the values given in Class A equipment limit multiplied by a factor of 1,5.

5.2. Block Diagram of Test Setup



5.3. Configuration of EUT on Test

The following equipment are installed on Harmonic Current Test to meet the EN IEC 61000-3-2 requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

5.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 5.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

5.5. Test Procedure

- (1) The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions for each successive harmonic component in turn. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the necessary for the EUT to be exercised.
- (2) The test results are reported on Section 5.6.

5.6. Harmonic Current Test Results

EUT	: Brush Servo	Test Date	: N/A
M/N	: CM3510MG	Temperature	: N/A
Test Engineer	: N/A	Humidity	: N/A
Test Voltage	: N/A	Pressure	: N/A
Test Mode	: N/A		
Test Results	: N/A		
Note: Not applicable for equipment operated with PC, battery or Power Supply.			

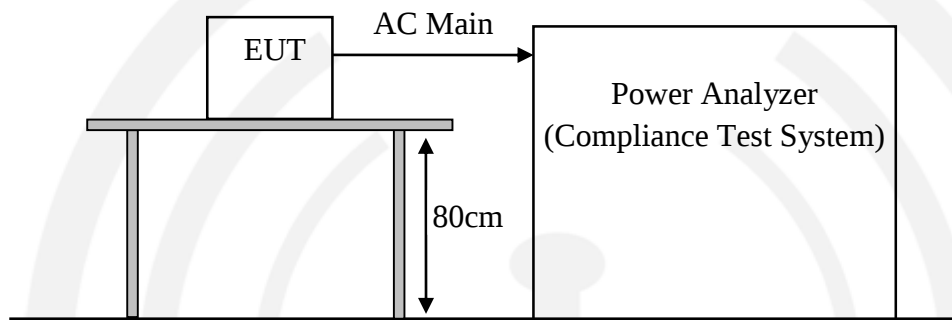


6. Voltage Fluctuations & Flicker Test

6.1. Test Limit

Test Item	Limit	Note
P_{st}	1.0	P_{st} means Short-term flicker indicator
P_{lt}	0.65	P_{lt} means long-term flicker indicator
T_{dt}	0.2	T_{dt} means maximum time that dt exceeds 3%
$d_{max}(\%)$	4%	d_{max} means maximum relative voltage change.
$d_c(\%)$	3.3%	d_c means relative steady-state voltage change.

6.2. Block Diagram of Test Setup



6.3. Configuration of EUT on Test

The following equipment are installed on Voltage Fluctuation and Flicker Test to meet the EN61000-3-3 requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 6.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

6.5. Test Procedure

- (1) The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the most unfavorable sequence of voltage changes under normal conditions During the flick measurement; the measure time shall include that part of whole operation changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.
- (2) The test results are reported on Section 6.6.

6.6. Voltage Fluctuation and Flicker Test Results

EUT	: Brush Servo	Test Date	: N/A
M/N	: CM3510MG	Temperature	: N/A
Test Engineer	: N/A	Humidity	: N/A
Test Voltage	: N/A	Pressure	: N/A
Test Mode	: N/A		
Test Results	: N/A		
Note:	Not applicable for equipment operated with PC, battery or Power Supply.		



7. Immunity General performance criteria

Performance Level

When assessing the impact of a disturbance on a function, the assessment should take into consideration the function's performance prior to the application of the disturbance and only identify as failures those changes in performance that are a result of the disturbance.

Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion B

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.

After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.

Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

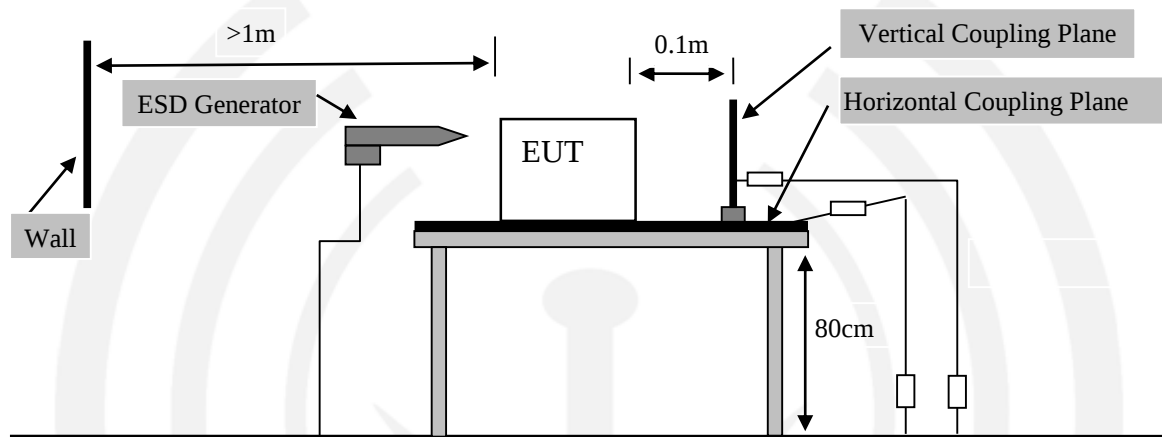
8. Electrostatic Discharge Test

8.1. Electrostatic Discharge Test Limits

Test Type	Test Level	Performance Criterion
Air Discharge	8KV	B
Contact Discharge	4KV	B

Notes: 1. Test set-up reference IEC 61000-4-2:2008

8.2. Block Diagram of Test Setup



8.3. Configuration of EUT on Test

The following equipment are installed on Electrostatic Discharge Test to meet the IEC 61000-4-2 requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

8.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 8.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

8.5. Test Procedure

(1) Air Discharge:

The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 20 times (10 with positive and 10 negative with positive) for each pre-selected test point. This procedure was repeated until all the air discharge completed.

(2) Contact Discharge:

All the procedure was same as Section 8.5(1). Except that for the time interval between successive single discharges an initial value of 1 s is recommended. Longer intervals may be necessary to determine whether a system failure has occurred.

(3) Indirect discharge for horizontal coupling plane:

At least 20 single discharges (10 with positive and 10 negative with positive) were applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

(4) Indirect discharge for vertical coupling plane:

At least 20 single discharge (10 with positive and 10 negative with positive) were applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, was placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges were applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

8.6. Electrostatic Discharge Test Results

EUT : Brush Servo			Test Date : 2025.09.09	
M/N : CM3510MG			Temperature : 24℃	
Test Engineer : Eve Hu			Humidity : 56%	
Test Voltage DC 8.4V from DC Power			Pressure : 101.6Kpa	
Test Mode : Mode1				
Test Results : PASS				
Discharge Voltage (kV)	Type Of Discharge	Dischargeable Points	Performance	
			Required	Observation
±2	Contact	1	B	A
±4	Contact	1	B	A
±2	Air	2	B	A
±4	Air	2	B	A
±8	Air	2	B	A
±4	HCP-Bottom	Edge of the HCP	B	A
±4	VCP-Front	Center of the VCP	B	A
±4	VCP-Left	Center of the VCP	B	A
±4	VCP-Back	Center of the VCP	B	A
±4	VCP-Right	Center of the VCP	B	A
Discharge Points Description				
<u>1.</u>	Metal		<u>4.</u>	
<u>2.</u>	Gap		<u>5.</u>	
<u>3.</u>			<u>6.</u>	
Note:	1. For the time interval between successive single discharges an initial value of one second. 2. For Air Discharge each Point Positive 10 times and negative 10 times discharge. 3. Class A is no function loss.			

9. Continuous RF electromagnetic field disturbances Test

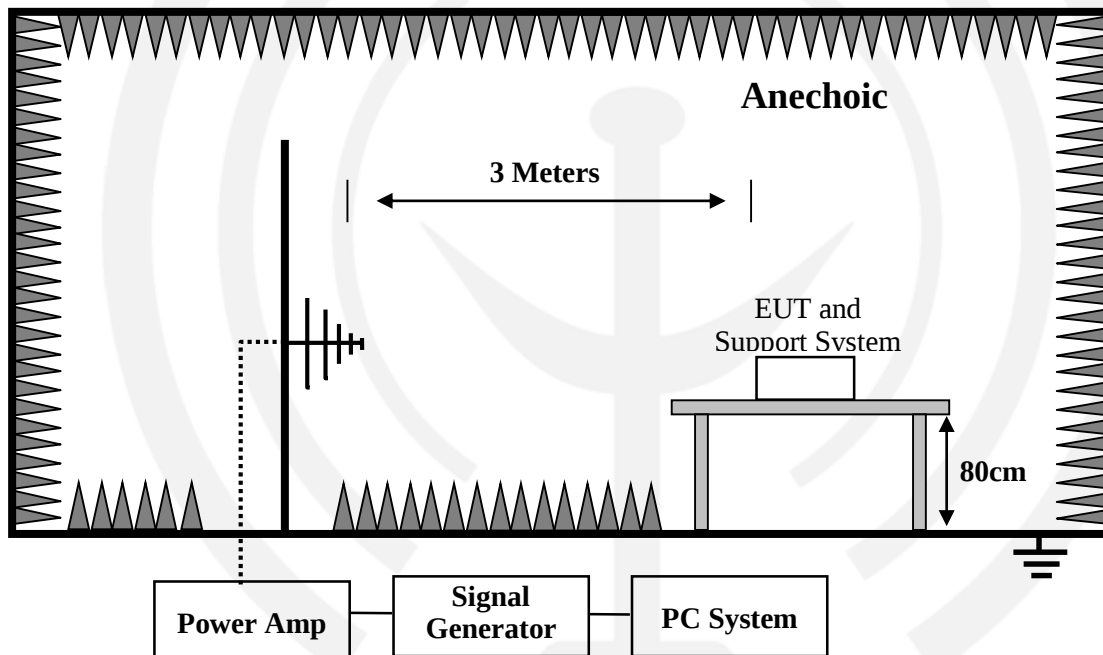
9.1. Test Level

Test Specifications	Test Level	Performance Criterion
80MHz-1000MHz	3V/m (r.m.s.)	A
1800(±1%)MHz		A
2600(±1%)MHz		A
3500(±1%)MHz		A
5000(±1%)MHz		A

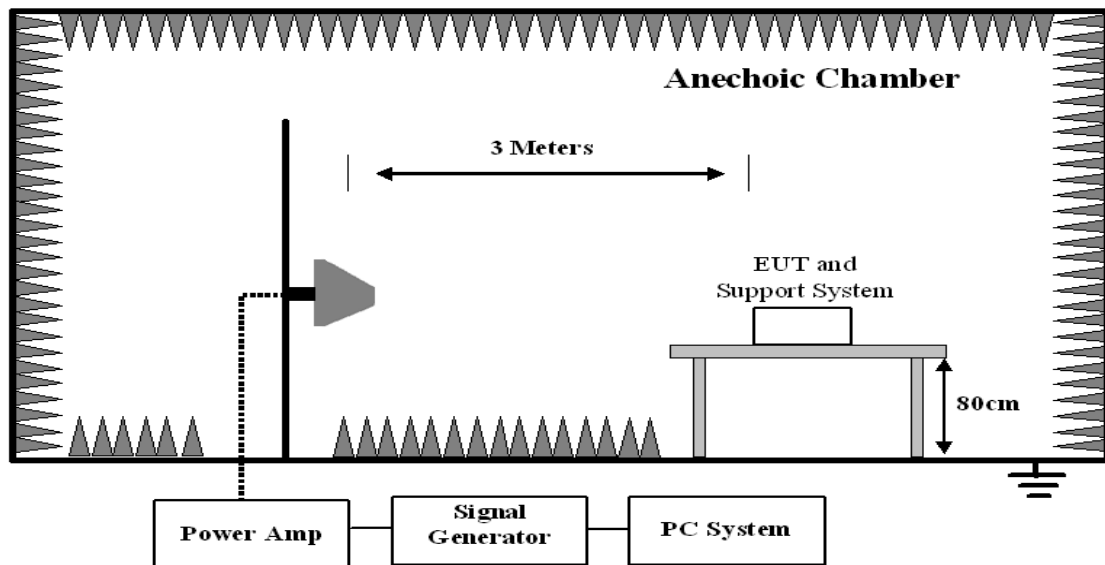
Notes: 1. Test set-up reference IEC 61000-4-3:2006 + A1:2007 + A2:2010

9.2. Block Diagram of Test Setup

For frequency from 80MHz to 1000MHz



For frequency above 1000MHz



9.3. Configuration of EUT on Test

The following equipment are installed on RF Field Strength Susceptibility Test to meet the IEC 61000-4-3 requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

9.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 9.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

9.5. Test Procedure

- (1) Testing was performed in a Fully anechoic chamber as recommended by IEC 61000-4-3. The EUT was placed on an 80 cm high non-conductive table located in the area of field uniformity. The radiating antenna was placed 3m in front of the EUT and Support system, and dwell time of the radiated interference was controlled by an automated, computer-controlled system.
- (2) The signal source was stepped through the applicable frequency range at a rate no faster than 1% of the fundamental. The signal was amplitude modulated 80% over the frequency range 80 MHz to 1GHz at a level of 3 V/m. The dwell time was set at 1 s. Field presence was monitored during testing via a field probe placed in close proximity to the EUT.
- (3) Throughout testing, the EUT was closely monitored for signs of susceptibility. The test was performed with the antennae oriented in both a horizontal and vertical polarization.

9.6. Continuous RF electromagnetic field disturbances Test Results

EUT	: Brush Servo	Test Date	: 2025.09.09
M/N	: CM3510MG	Temperature	: 24℃
Test Engineer	: Eve Hu	Humidity	: 56%
Test Voltage	DC 8.4V from DC Power	Pressure	: 101.6Kpa
Test Mode	: Mode1		
Test Results	: PASS		
Note	: The test results are listed in next pages		



Modulation:	☒ AM ☐ Pulse ☐ none 1 kHz 80%				
Frequency Range	80 MHz -1000MHz				
Field strength	3V/m				
Steps	1%				
	Horizontal		Vertical		Result
	Required	Observation	Required	Observation	(Pass / Fail)
Front	A	A	A	A	Pass
Right	A	A	A	A	Pass
Rear	A	A	A	A	Pass
Left	A	A	A	A	Pass
Remark: Class A is no function loss					

Modulation:	☒ AM ☐ Pulse ☐ none 1 kHz 80%				
Frequency Range	1800(±1%) MHz				
Field strength	3V/m				
Steps	spot test				
	Horizontal		Vertical		Result
	Required	Observation	Required	Observation	(Pass / Fail)
Front	A	A	A	A	Pass
Right	A	A	A	A	Pass
Rear	A	A	A	A	Pass
Left	A	A	A	A	Pass
Remark: Class A is no function loss					

Modulation:	☒ AM	☐ Pulse	☐ none	1 kHz	80%
Frequency Range	2600(±1%) MHz				
Field strength	3V/m				
Steps	spot test				
	Horizontal		Vertical		Result
	Required	Observation	Required	Observation	(Pass / Fail)
Front	A	A	A	A	Pass
Right	A	A	A	A	Pass
Rear	A	A	A	A	Pass
Left	A	A	A	A	Pass
Remark: Class A is no function loss					



Modulation:	☒ AM ☐ Pulse ☐ none 1 kHz 80%				
Frequency Range	3500(±1%) MHz				
Field strength	3V/m				
Steps	spot test				
	Horizontal		Vertical		Result
	Required	Observation	Required	Observation	(Pass / Fail)
Front	A	A	A	A	Pass
Right	A	A	A	A	Pass
Rear	A	A	A	A	Pass
Left	A	A	A	A	Pass
Remark: Class A is no function loss					

Modulation:	☒ AM ☐ Pulse ☐ none 1 kHz 80%				
Frequency Range	5000(±1%) MHz				
Field strength	3V/m				
Steps	spot test				
	Horizontal		Vertical		Result
	Required	Observation	Required	Observation	(Pass / Fail)
Front	A	A	A	A	Pass
Right	A	A	A	A	Pass
Rear	A	A	A	A	Pass
Left	A	A	A	A	Pass
Remark: Class A is no function loss					

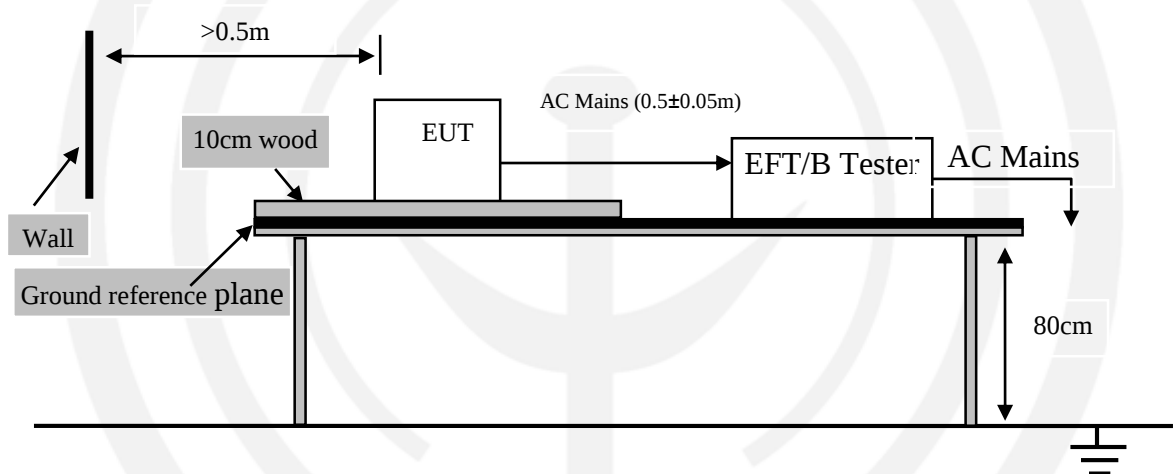
10. Electrical Fast Transient/Burst Immunity Test

10.1. Test Level

For AC mains power ports		
Test Specifications	Test Level	Performance Criterion
Tr/Th Repetition: 5/50ns Frequency: 5kHz	1KV	B
For DC network power ports and analogue/digital data ports		
Test Specifications	Test Level	Performance Criterion
Tr/Th Repetition: 5/50ns Frequency: 5kHz	0.5KV	B

Notes: 1. Test set-up reference IEC 61000-4-4:2012

10.2. Block Diagram of Test Setup



10.3. Configuration of EUT on Test

The following equipment are installed on Electrical Fast Transient/Burst immunity Test to meet the IEC 61000-4-4 requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

10.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 10.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

10.5. Test Procedure

The EUT and its simulators were placed on the ground reference plane and were insulated from it by a wood support 0.1m + 0.01m thick. The ground reference plane was 1m*1m metallic sheet with 0.65mm minimum thickness. This reference ground plane was project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane was more than 0.5m. All cables to the EUT was placed on the wood support, cables not subject to EFT/B was routed as far as possible from the cable under test to minimize the coupling between the cables.

10.5.1. For input and AC power ports:

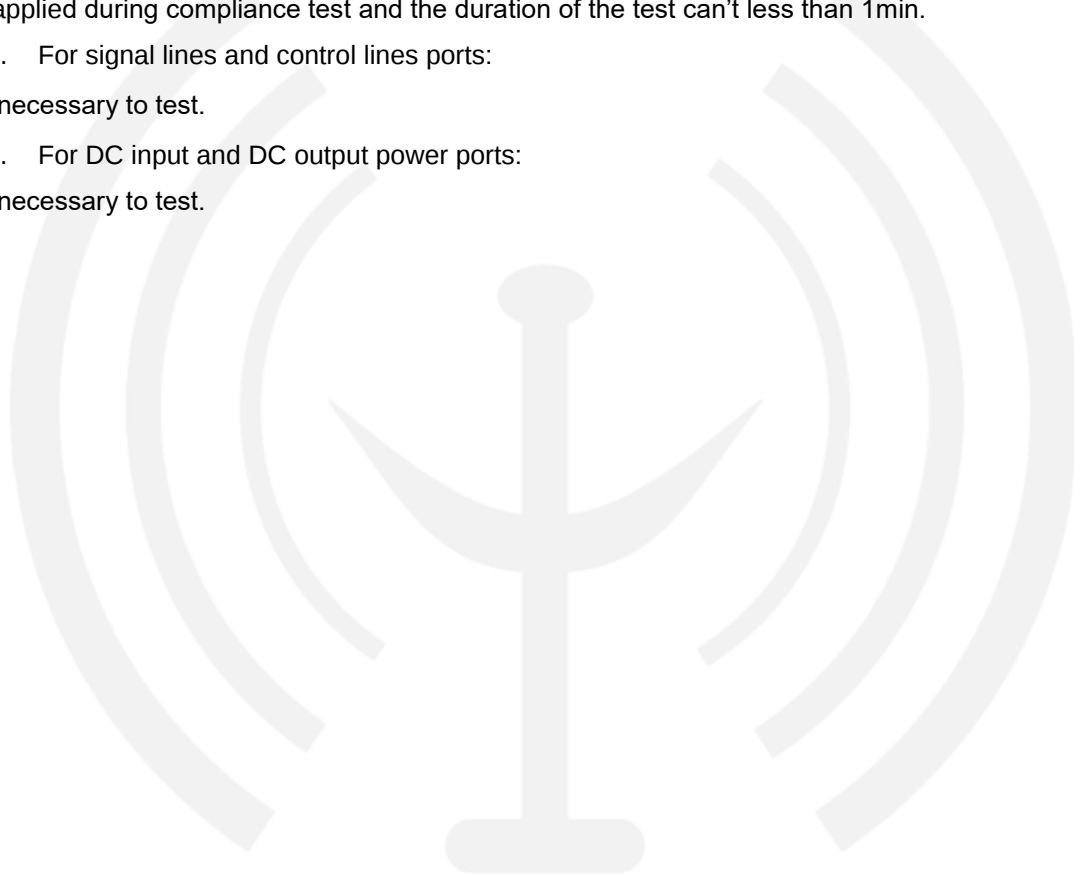
The EUT was connected to the power mains by using a coupling device that couples the EFT interference signal to AC power lines. Both positive transients and negative transients of test voltage were applied during compliance test and the duration of the test can't less than 1min.

10.5.2. For signal lines and control lines ports:

It's unnecessary to test.

10.5.3. For DC input and DC output power ports:

It's unnecessary to test.



10.6.Electrical Fast Transient/Burst immunity Test Results

EUT	: Brush Servo	Test Date	: N/A
M/N	: CM3510MG	Temperature	: N/A
Test Engineer	: N/A	Humidity	: N/A
Test Voltage	: N/A	Pressure	: N/A
Test Mode	: N/A		
Test Results	: N/A		
Note: 1. Not applicable for equipment operated with PC, battery or Power Supply. 2. Not applicable for Cable length less than 3m.			



11. Surge Test

11.1. Test Level

For AC mains power ports

Test Specifications	Test Level	Performance Criterion
Tr/Th Repetition: 1,2/50 (8/20)ns Between line and line	1 KV	B
Tr/Th Repetition: 1,2/50 (8/20)ns Between line and earth (ground)	2 KV	B

For DC network power ports

Test Specifications	Test Level	Performance Criterion
Tr/Th Repetition: 1,2/50 (8/20)ns Line to reference ground for each individual line	0.5 KV	B

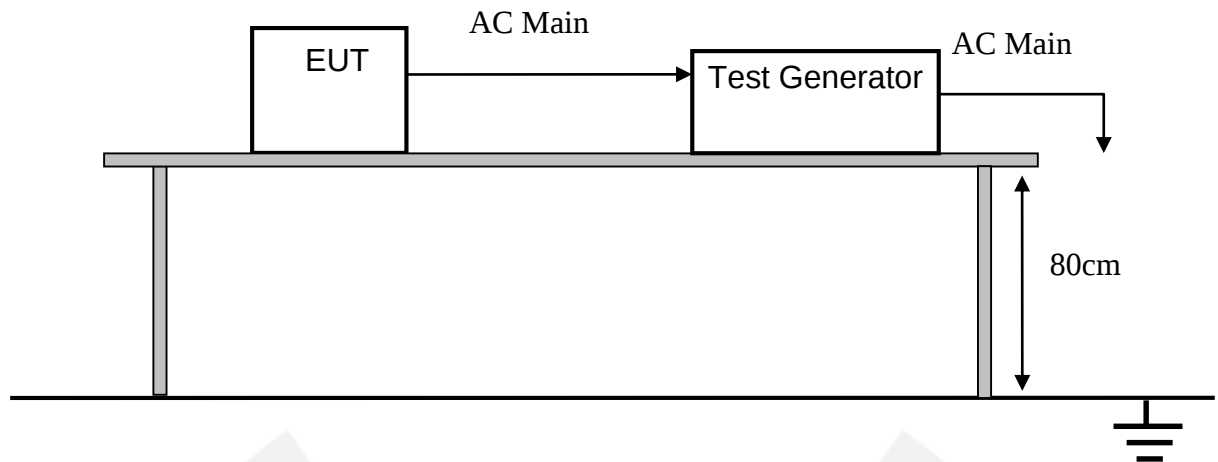
For analogue/digital data ports

Test Specifications	Test Level	Performance Criterion
Tr/Th Repetition: 10/700 (5/320)ns unshielded symmetrical: lines to ground Apply where primary protection is intended	1 KV/4KV ^{a b}	C
Tr/Th Repetition: 10/700 (5/320)ns unshielded symmetrical: lines to ground Apply where primary protection is not intended	1 KV ^b	C
Tr/Th Repetition: 1,2/50 (8/20)ns coaxial or shielded: shield to ground	0.5KV ^c	B

- Notes:
1. Test set-up reference IEC 61000-4-5:2014+A1:2017
 2. ^a is surges are applied with primary protection fitted. Where possible, use the actual primary protector intended to be used in the installation.
 3. ^b is Where the surge coupling network for the 10/700 (5/320) μ s waveform affects the functioning of high speed data ports, the test shall be carried out using a 1,2/50 (8/20) μ s waveform and appropriate coupling network.
 4. ^a is Surges are applicable to ports which satisfy all the following conditions:
 - may connect directly to cables that leave the building structure,
 - defined as an antenna port, a wired network port, or a broadcast receiver tuner port see the standard EN 55035 section 3.

Typical ports covered include xDSL, PSTN, CATV, antenna and similar. Excluded ports are LAN and similar.

11.2. Block Diagram of Test Setup



11.3. Configuration of EUT on Test

The following equipment are installed on Surge Test to meet the IEC 61000-4-5 requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

11.4. Operating Condition of EUT

- (1) Set up the EUT as shown as Section 11.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

11.5. Test Procedure

- For line-to-line coupling mode, provide a 1kV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points, and for active line / neutral lines to ground are same except test level is 2kV.
- (1) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are applied during test.
 - (2) Different phase angles are done individually.
 - (3) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

11.6.Surge Test Results

EUT	: Brush Servo	Test Date	: N/A
M/N	: CM3510MG	Temperature	: N/A
Test Engineer	: N/A	Humidity	: N/A
Test Voltage	: N/A	Pressure	: N/A
Test Mode	: N/A		
Test Results	: N/A		
Note: 1. Not applicable for equipment operated with PC, battery or Power Supply. 2. Not applicable for Cable length less than 3m.			



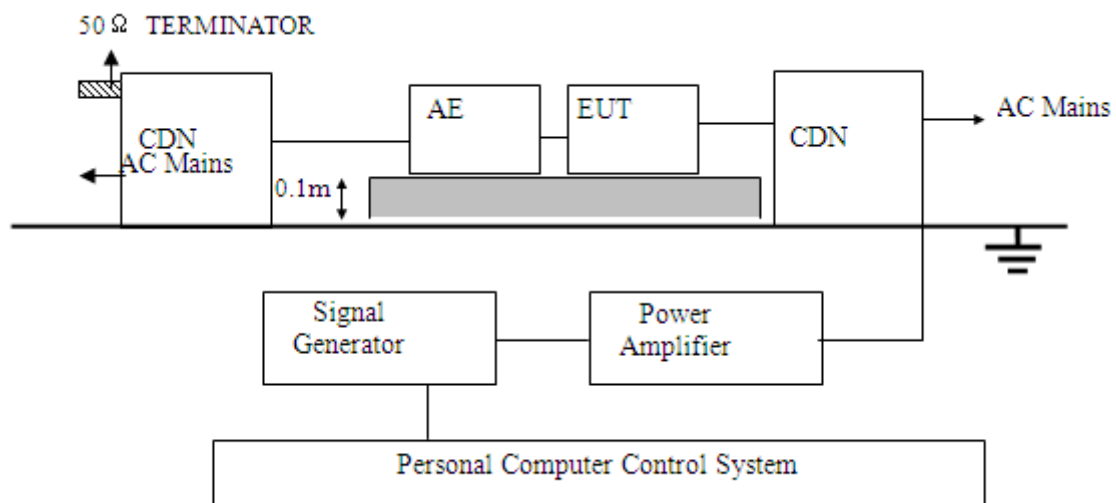
12. Continuous induced RF disturbances Test

12.1. Test Level

Test Specifications	Test Level	Performance Criterion
0,15 to 10MHz	3 V	A
10 to 30MHz	3 to 1 V	
30 to 80MHz	1 V	

Notes: 1. Test set-up reference IEC 61000-4-6:2023

12.2. Block Diagram of Test Setup



12.3. Configuration of EUT on Test

The following equipment are installed on Injected currents susceptibility Test to meet the IEC 61000-4-6 requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

12.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 12.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

12.5. Test Procedure

- (1) Let the EUT work in test mode and test it.
The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables
- (2) between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 10 and 30 mm (where possible).
- (3) The disturbance signal described below is injected to EUT through CDN.
- (4) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- (5) The frequency range is swept from 0.150MHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.
- (6) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- (7) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

12.6.Continuous induced RF disturbances Test Results

EUT	: Brush Servo	Test Date	: N/A
M/N	: CM3510MG	Temperature	: N/A
Test Engineer	: N/A	Humidity	: N/A
Test Voltage	: N/A	Pressure	: N/A
Test Mode	: N/A		
Test Results	: N/A		
Note: 1. Not applicable for equipment operated with PC, battery or Power Supply. 2. Not applicable for Cable length less than 3m.			



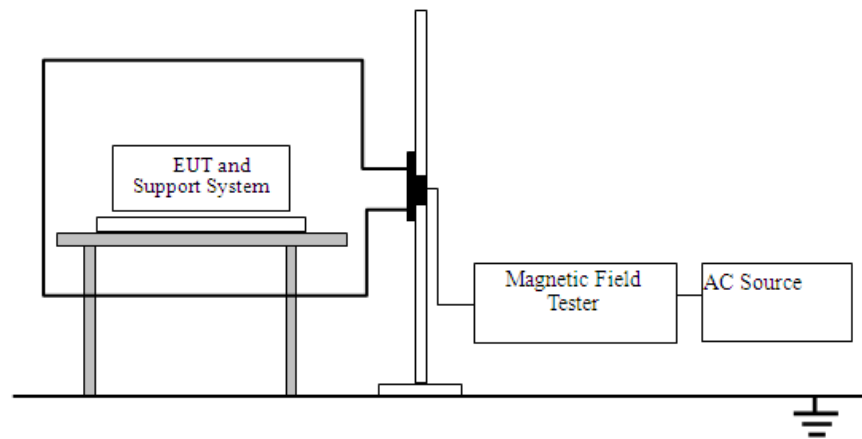
13. Magnetic Field Immunity Test

13.1. Test Level

Test Specifications	Test Level	Performance Criterion
50 or 60 Hz	1 A/m	A

- Notes:
1. Test set-up reference IEC 61000-4-8:2009
 2. This test applicable only to equipment containing devices intrinsically susceptible to magnetic fields, such as CRT monitors, Hall effect elements, electro-dynamic microphones, magnetic field sensors or audio frequency transformers. Refer to D.3.2 for determining the test level when the EUT contains a CRT display.

13.2. Block Diagram of Test Setup



13.3. Configuration of EUT on Test

The following equipment are installed on Magnetic field immunity Test to meet the IEC 61000-4-8 requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

13.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 13.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

13.5. Test Procedure

- The EUT was subjected to the test magnetic field by using the induction coil of standard dimensions
- (1) (1m*1m) and shown in Section 13.2. The induction coil was then rotated by 90° in order to expose the EUT to the test field with different orientations.

13.6.Magnetic field immunity Test Results

EUT	: Brush Servo	Test Date	: N/A
M/N	: CM3510MG	Temperature	: N/A
Test Engineer	: N/A	Humidity	: N/A
Test Voltage	: N/A	Pressure	: N/A
Test Mode	: N/A		
Test Results	: N/A		
Note:	The EUT not containing devices susceptible to magnetic fields, and Power-frequency magnetic field test applicable only to EUT containing devices susceptible to magnetic fields, so the test not applicable.		



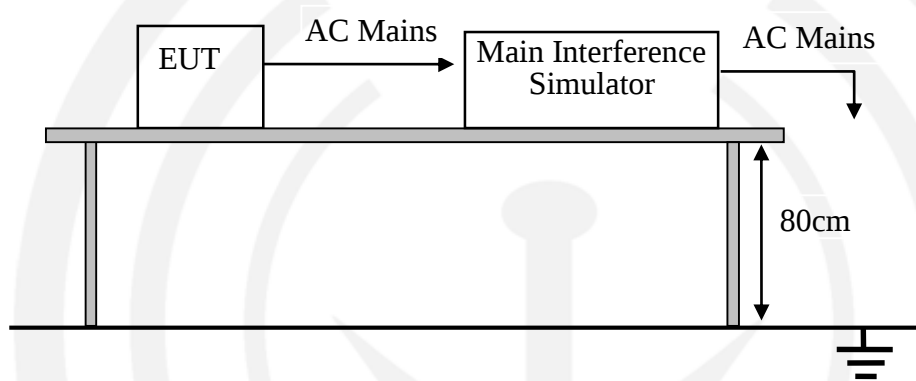
14. Voltage Dips and Interruptions Test

14.1. Test Level

Test Level %UT	Voltage dip and short interruptions %UT	Performance Criterion	Duration (in period)
< 5	100	C	250
< 5	100	B	0.5
70	30	C	25

Notes: 1. Test set-up reference IEC 61000-4-11:2020

14.2. Block Diagram of Test Setup



14.3. Configuration of EUT on Test

The following equipment are installed on Voltage dips and interruptions Test to meet the IEC 61000-4-11 requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

14.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 14.2.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test mode and 15 minutes before taking the test.

14.5. Test Procedure

- (1) The interruption is introduced at selected phase angles with specified duration.
- (2) Record any degradation of performance.

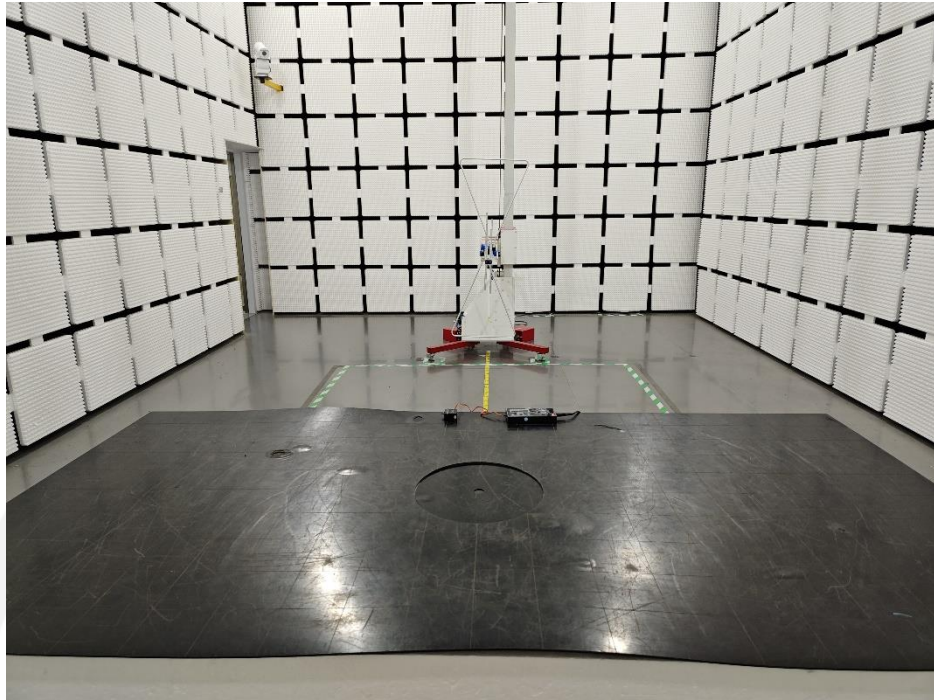
14.6.Voltage dips and interruptions Test Results

EUT	: Brush Servo	Test Date	: N/A
M/N	: CM3510MG	Temperature	: N/A
Test Engineer	: N/A	Humidity	: N/A
Test Voltage	: N/A	Pressure	: N/A
Test Mode	: N/A		
Test Results	: N/A		
Note:	Not applicable for equipment operated with PC, battery or Power Supply.		

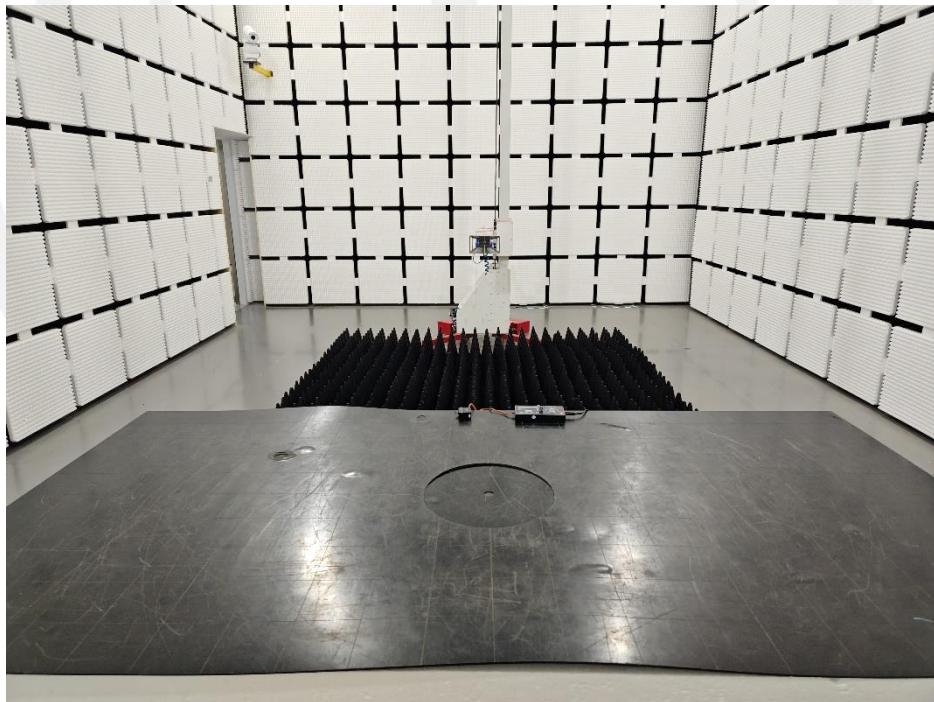


15. Photograph

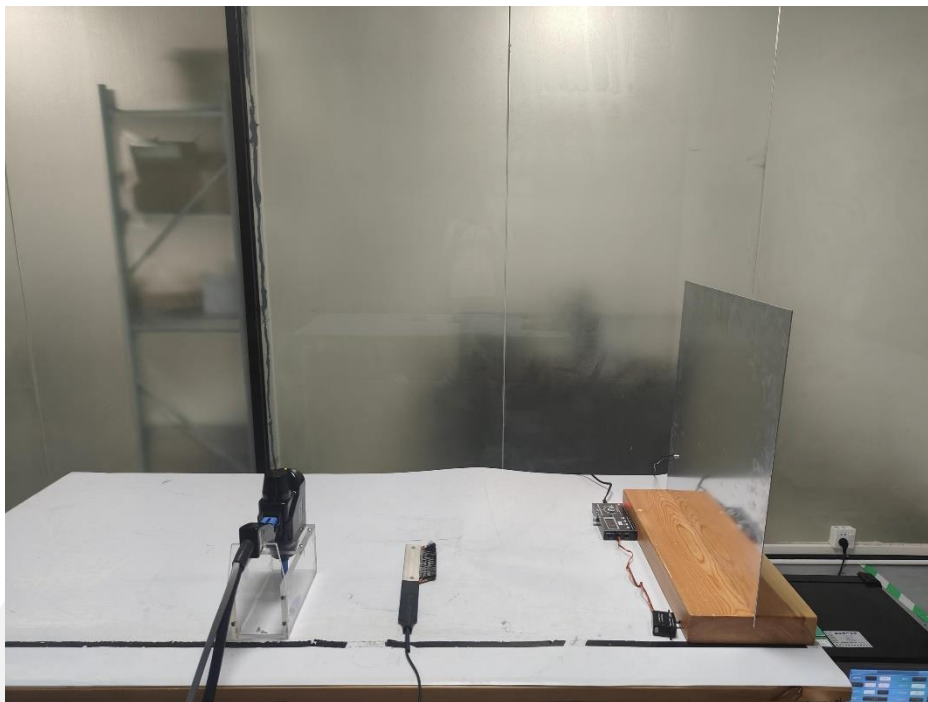
15.1.Photo of Radiated emissions Test (In Semi Anechoic Chamber)



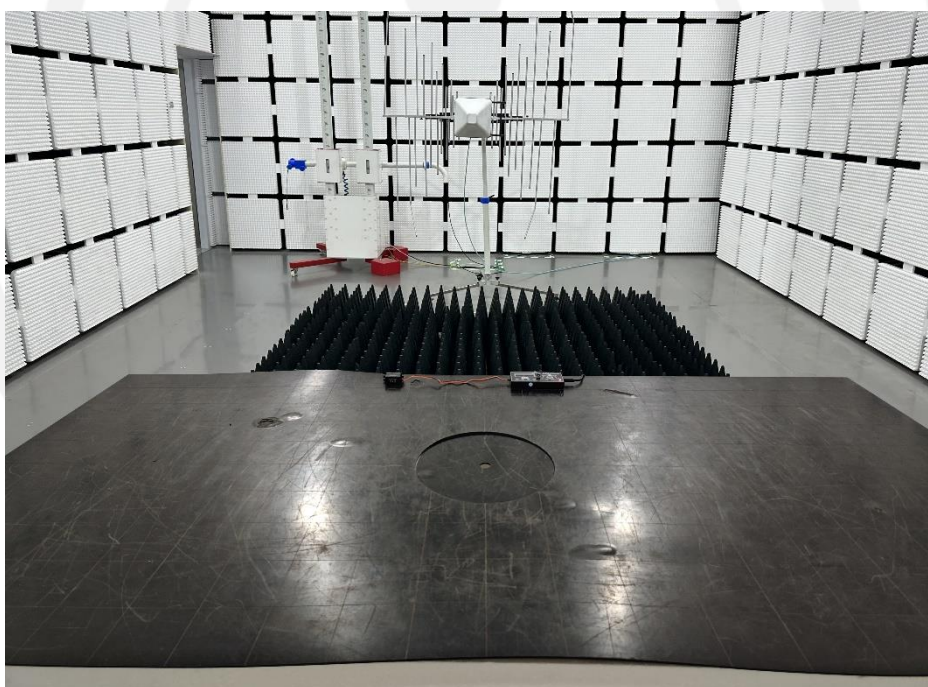
15.2.Photos of Radiated Emission Test (Above 1G)



15.3.Photo of Electrostatic Discharge Test



15.4.Continuous RF electromagnetic field disturbances Test



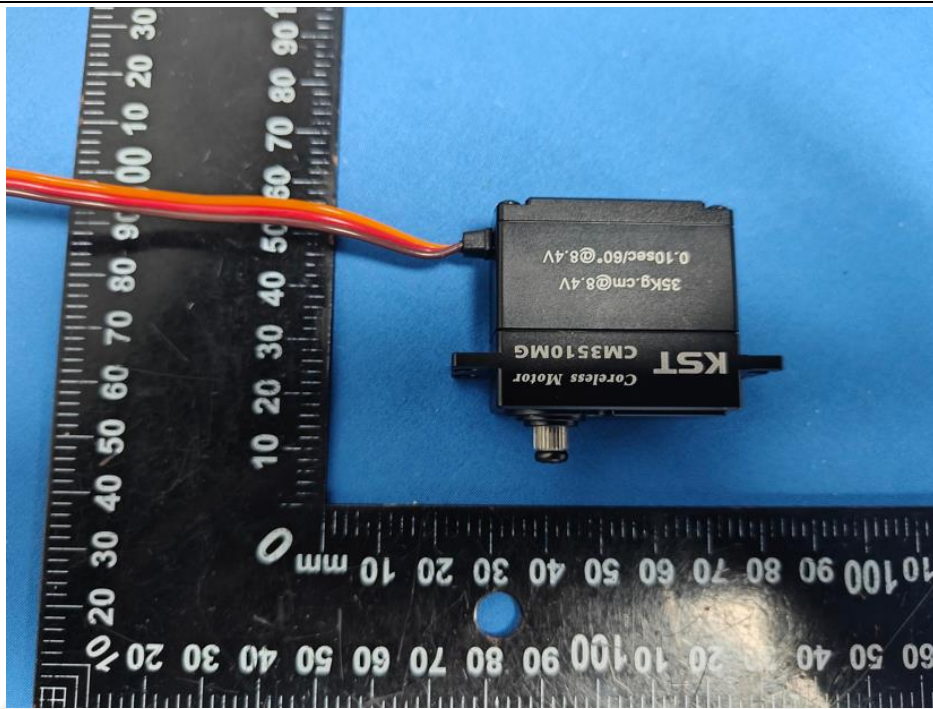
16. Photos Of The EUT



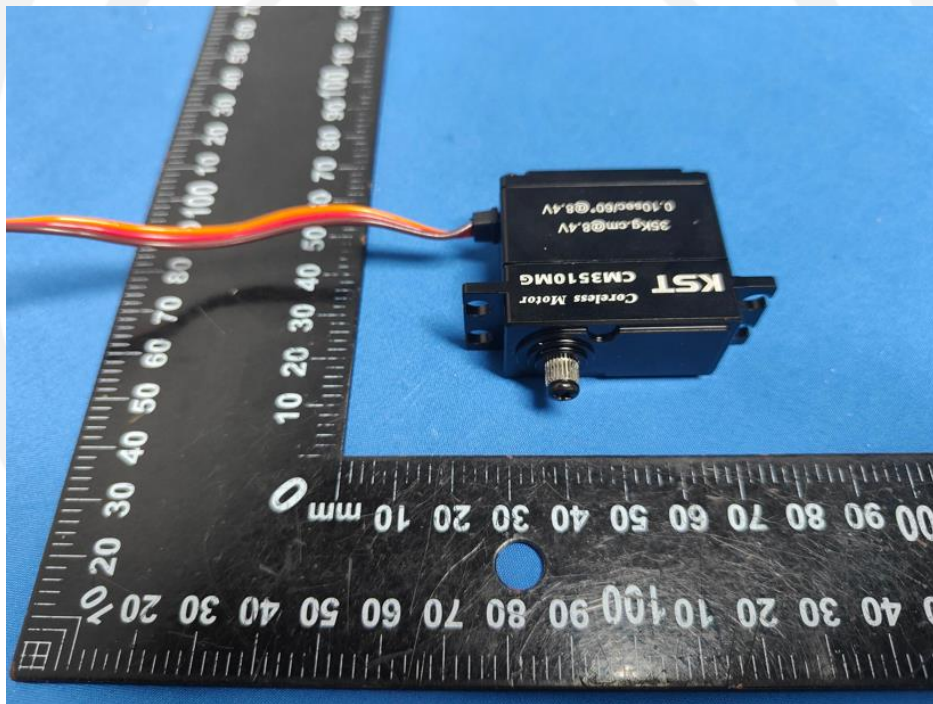
EUT View



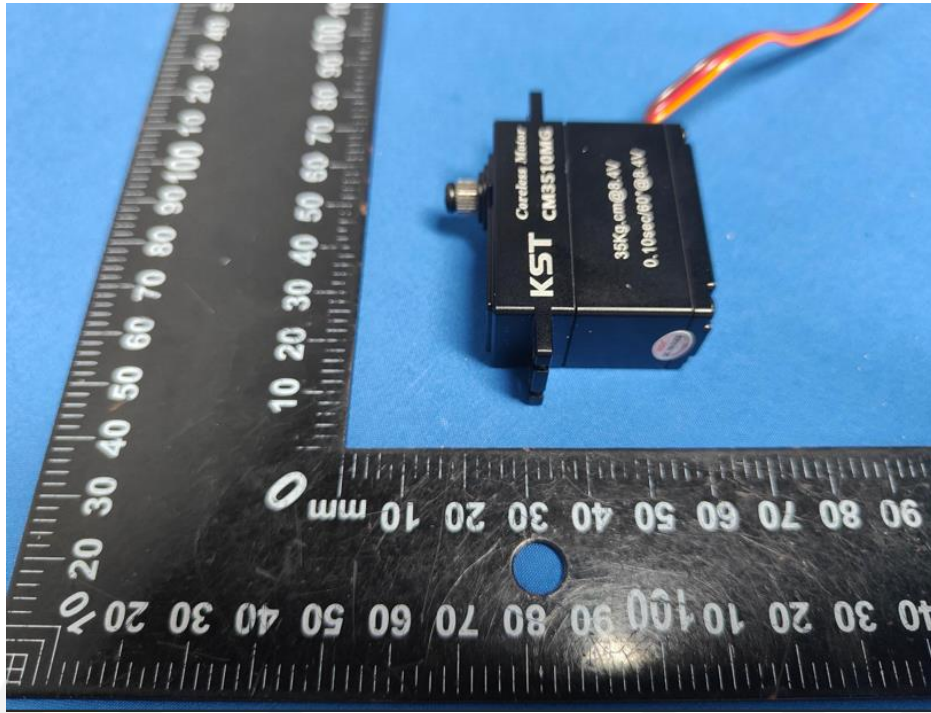
EUT View



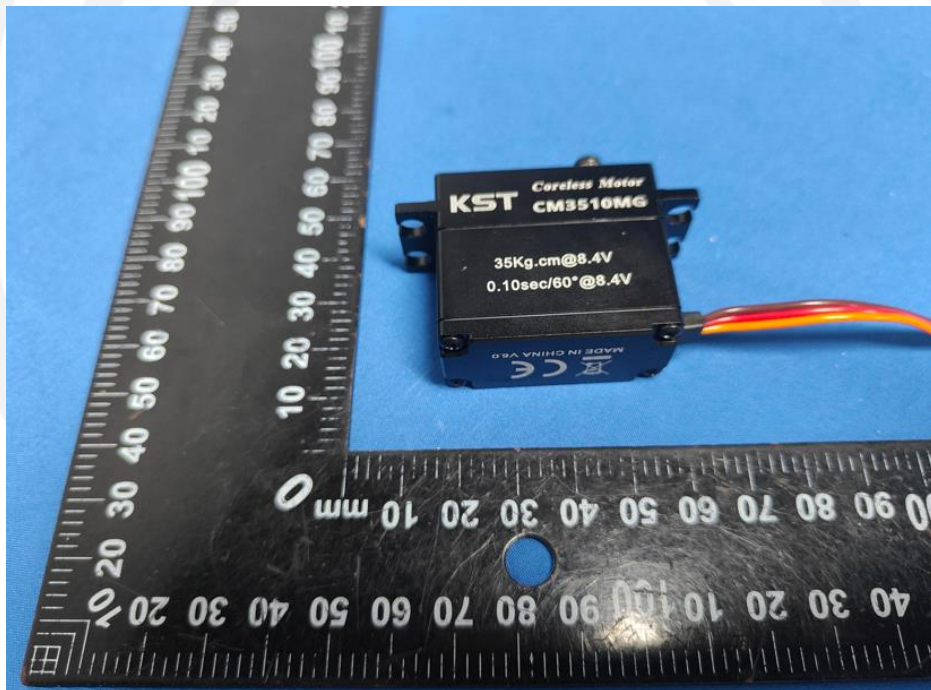
EUT View



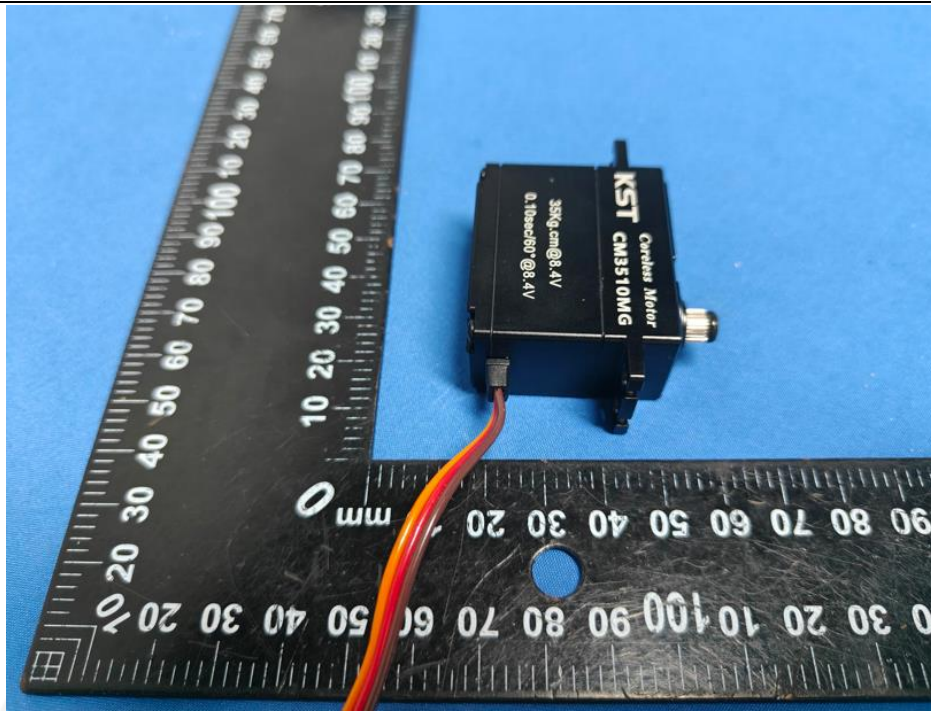
EUT View



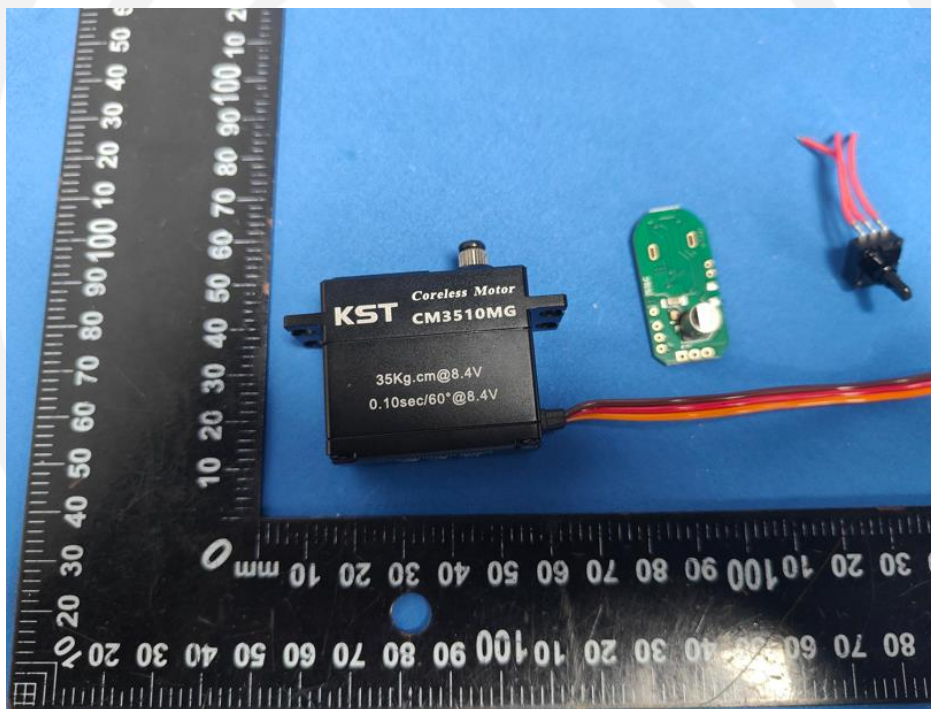
EUT View



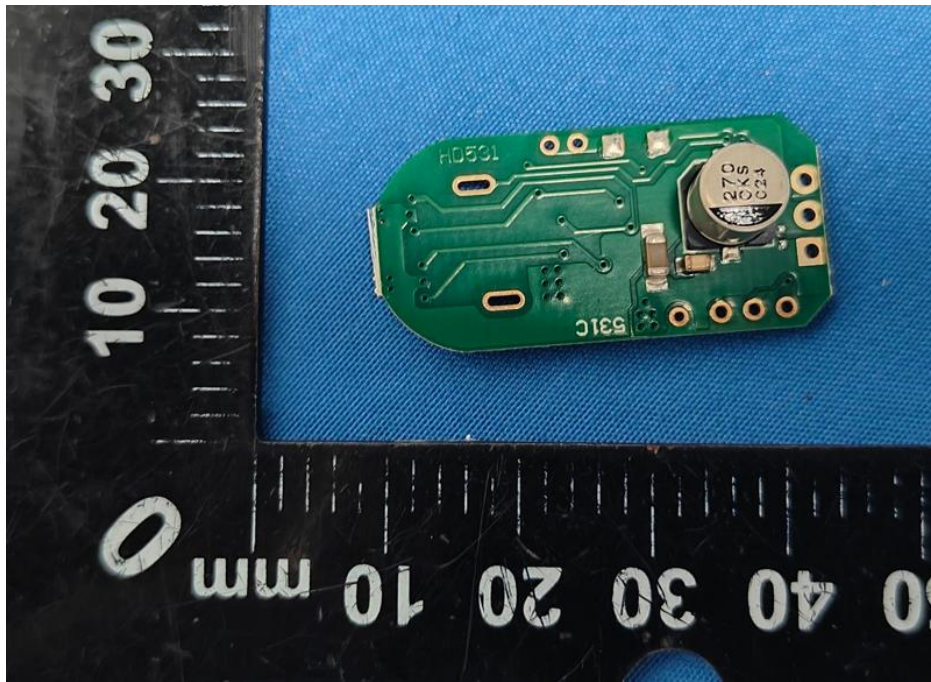
EUT View



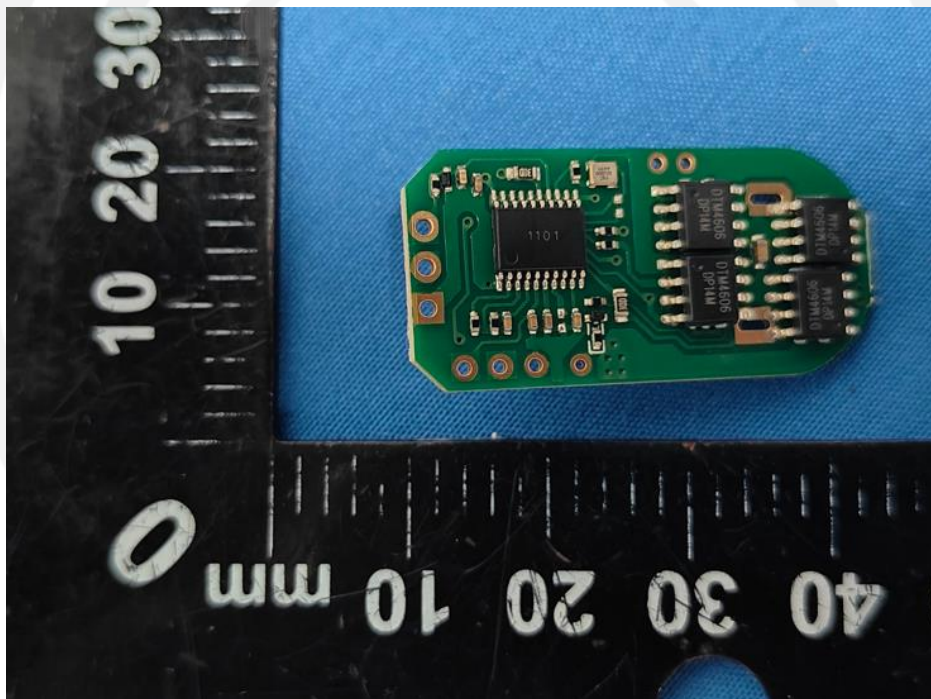
EUT View



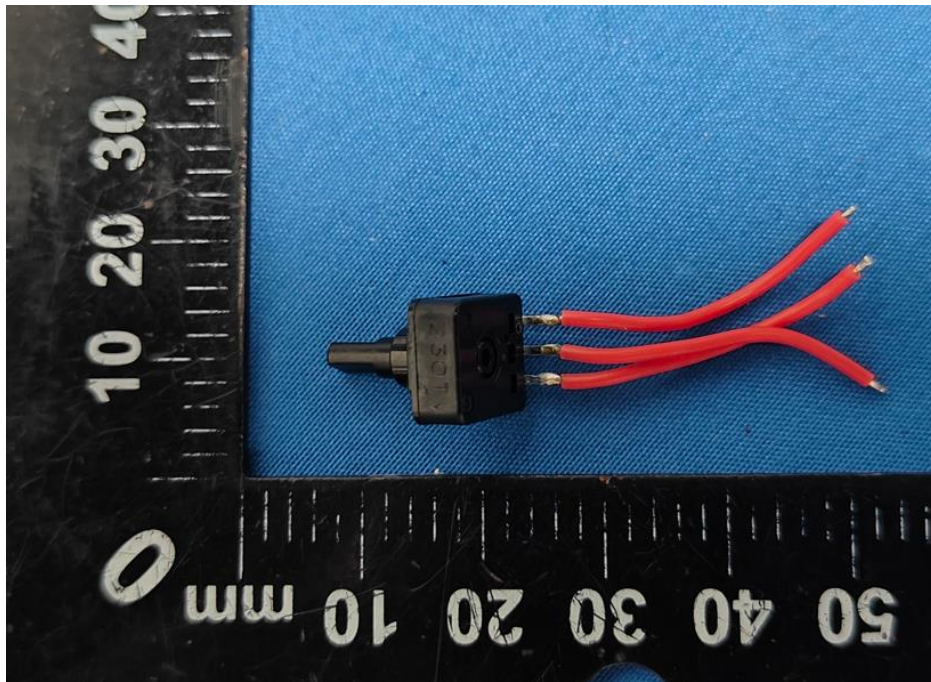
EUT View



EUT View



EUT View



EUT View

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