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**Test Method for Measuring Shielding Effectiveness of
Passive and Active Devices Using a GTEM Cell**

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TABLE OF CONTENTS

1.0	SCOPE	1
2.0	DEFINITIONS AND ACRONYMS	1
3.0	INORMATIVE REFERENCES	1
4.0	EQUIPMENT	2
5.0	CHAMBER VERIFICATION	3
6.0	TEST METHOD 1	3
7.0	TEST METHOD 2	5
8.0	ERROR ANALYSIS	7
9.0	RECORDING RESULTS	9
	APPENDIX A: RFI/EMI SHIELDING CALCULATIONS AND METHODOLOGY ...	11
	APPENDIX B: GTEM CELL QUALIFICATION METHOD.....	15
	APPENDIX C: FIELD UNIFORMITY VERIFICATION METHOD	17

LIST OF FIGURES

FIGURE 1: EQUIPMENT SETUP FOR INGRESS SHIELDING TEST (METHOD 2)	5
FIGURE A.1: RECEIVE PATH BLOCK DIAGRAM	12
FIGURE B.1: GTEM QUALIFICATION TEST CONFIGURATION	15

LIST OF TABLES

TABLE 1:	7
TABLE B.1: GTEM CELL QUALIFICATION DATA	16
TABLE C.1: TEST CHAMBER CALIBRATION DATA	19

1.0 SCOPE

The purpose of this test is to determine the shielding effectiveness against Electromagnetic Interference (EMI) of components. This method subjects the component to an electric field of known strength.

2.0 DEFINITIONS AND ACRONYMS

E - Electric field strength

f - Frequency in MHz

G_r - Shielding Effectiveness

K - The sum of all losses and gains between the DUT and the test equipment

G_A - The gain of any amplifier between the signal generator and GTEM cell

P_r - Power received by the DUT (ingress)

P_m - Power measured at the measurement equipment

MHz - Megahertz (1×10^6 Hz)

GTEM cell - Gigahertz Transverse Electric Field Mode Cell

kHz - Kilohertz (1×10^3 Hz)

RF - Radio Frequency-

DUT - Device Under Test

3.0 INFORMATIVE REFERENCES

3.1 SCTE References

- None

3.2 References

- Electronics Engineers' Handbook, 2nd Edition, McGraw-Hill, ISBN 0-0702-0981-2
- EMC for Product Designers, Tim Williams, 3rd Edition, Newnes, ISBN 0-7506-4930-5