

ISO/IEC 10373-6:2001-05 (E)

Identification cards - Test methods - Part 6: Proximity cards

Contents		Page
Foreword		v
1	Scope	1
2	Normative references	1
3	Terms and definitions, abbreviations and symbols	2
3.1	Terms and definitions	2
3.2	Abbreviations and symbols	2
4	Default items applicable to the test methods	3
4.1	Test environment	3
4.2	Pre-conditioning	3
4.3	Default tolerance	3
4.4	Spurious Inductance	3
4.5	Total measurement uncertainty	3
5	Static electricity test	3
5.1	Apparatus	3
5.2	Procedure	4
5.3	Test report	4
6	Test apparatus and test circuits	5
6.1	Calibration coil	5
6.1.1	Size of the Calibration coil card	5
6.1.2	Thickness and material of the Calibration coil card	5
6.1.3	Coil characteristics	5
6.2	Test PCD assembly	6
6.2.1	Test PCD antenna	6
6.2.2	Sense coils	6
6.2.3	Assembly of Test PCD	7
6.3	Reference PICCs	7
6.3.1	Reference PICC for Hmin, Hmax and PCD power	7
6.3.2	Reference PICC for load modulation test	7
6.3.3	Dimensions of the Reference PICCs	8
6.3.4	Thickness of the Reference PICCs board	8
6.3.5	Coil characteristics	8
6.4	Digital sampling oscilloscope	8
7	Functional test - PICC	8
7.1	Purpose	8
7.2	Test procedure	8
7.3	Test report	9
8	Functional test - PCD	9
8.1	PCD field strength	9
8.1.1	Purpose	9
8.1.2	Test procedure	9
8.1.3	Test report	10
8.2	Power transfer PCD to PICC	10
8.2.1	Purpose	10
8.2.2	Test procedure	10

8.2.3	Test report	10
8.3	Modulation index and waveform	10
8.3.1	Purpose	10
8.3.2	Test procedure	10
8.3.3	Test report	10
8.4	Load modulation reception (informative only)	11
8.4.1	Purpose	11
8.4.2	Test procedure	11
Annex A (normative) Test PCD Antenna		12
A.1	Test PCD Antenna layout including impedance matching network	12
A.2	Impedance matching network	14
Annex B (informative) Test PCD Antenna tuning		15
Annex C (normative) Sense coil		17
C.1	Sense coil layout	17
C.2	Sense coil assembly	18
Annex D (normative) Reference PICC for field and power measurements		19
Annex E (informative) Reference PICC for load modulation test		20
Annex F (informative) Program for the evaluation of the spectrum		21