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Recognized by the Federal Communications Commission

Anechoic chamber registration no.: 90462 (FCC) Anechoic chamber registration no.: IC 3463A-1



Accredited by the German Accreditation Council DAR–Registration Number DAT-P-176/94-D1



Accredited Bluetooth® Test Facility (BQTF)

Test report no. : 1-0670-01-04/08 Applicant : Bernafon AG

Type : Verite VE 505 Hearing aid

Test Standard : FCC Part 15.223

RSS210 Issue 7

FCC ID : U6XFURITE1 Certification No. IC : 7031A-FURITE1

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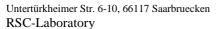
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1 General information

1.1. Administrative data of the test facility

1.1.1 Identification of the testing laboratory

Company name: Cetecom ICT Services GmbH

Address: Untertürkheimerstr. 6-10

D-66117 Saarbruecken

Germany

Laboratory accreditation: DAR-Registration No. DAT-P-176/94-D1

Bluetooth Qualification Test Facility (BQTF)

Federal Communications Commission (FCC)

Identification/Registration No: 90462

Responsible for testing laboratory: Stefan Bös

Phone: +49 681 598 0

Fax: +49 681 598 9075 email: info@ict.cetecom.de

1.2. Notes

The test results of this test report relate exclusively to the test item specified in 1.5. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

Responsible for testing laboratory (Stefan Bös)

Responsible for test report

(Michael Berg)

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1.3 Details of Applicant

Name : Bernafon AG Address : Morgenstraße 131

City : 3018 Bern Country : Switzerland : +41 31 998 15 15 Phone : +41 31 998 15 90 Fax : Mr Hans Pratisto Contact : +41 31 998 15 15 Phone : +41 31 998 15 90 Fax : hp@bernafon.ch e-mail

1.4 Application Details

Date of receipt of application : 2008-12-15 Date of receipt of test item : 2008-12-15

Date(s) of test : 2008-12-17 to 2009-01-14

Date of report : 2009-01-14





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Switzerland

-20 °C to +55 °C

1.5 Test Item

Type of equipment : Hearing Aid Model name : Verite VE 505

Details of Manufacturer

Country

Temperature Range

Company : Bernafon AG
Address : Morgenstraße 131
City : 3018 Bern

Tested to Radio Standards Specification(RSS) No. : 210 Issue 7 Open Area Test Site Industry Canada Number : IC 3463A-1

Frequency Range (or fixed frequency) : 3.84 MHz

Field Strength (at what distance) : -26.3 dBµV/m in 30m

Occupied Bandwidth (99% BW) : 356 kHz Type of Modulation : A1D

Antenna Information : internal antenna Emission Designator : 356kA1D

Transmitter Spurious (worst case) : no peaks found above noise level

IC Reg. no. : 7031A-FURITE1 FCC ID : U6XFURITE1

ATTESTATION:

DECLARATION OF COMPLIANCE: I declare that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned Industry Canada standard(s); and that the equipment identified in this application has been subjected to all the applicable test conditions specified in the Industry Canada standards and all of the requirements of the standard have been met.

efor his

Laboratory Manager:

2009-01-14 Stefan Bös

Date Name Signature





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1.5.1 Test conditions testing

Description	Shortcut	Unit	Value
Nominal Temperature / humidity	T _{nom}	°C / %	+23 / 61
Low Temperature	T_{low}	°C	-20
High Temperature	T_{high}	°C	+55
Nominal Power Source	V _{nom}	V	1.4

Type of powersource: V DC

1.6 Test Setup

Hardware	:	Revision 3 (Pre-Production)
Software	:	Firmware Version: Release 12, Special Configured for wireless tests
Serial number	:	-

1.7 Test Specifications

FCC:	CFR Part 15 – Radio Frequency Devices CFR Part 15.209 – Radiated emission limits.
IC:	RSS 210, Issue 7
	Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands):
	Category I Equipment

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2 Statement of Compliance

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

2.1 Summary of Measurement Results

2.1.1 CFR 47 Part 15 Radio frequency devices

Section in this Report	Test Name / Section FCC Part 15	Test Name / Section RSS 210	applicable	Verdict
4.1	§ 15.35 (c) Timing of the transmitter (Duty cycle correction factor)	6.5 Pulsed Operation	NO	
4.2	§ 15.209 FIELDSTRENGTH OF EMISSIONS	Annex 2.6	YES	Pass
4.3	§ 15.209 FIELDSTRENGHT OF HARMONICS AND SPURIOUS	RSS 210, Annex 2.6	YES	Pass

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3 Measurements and results

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 1 GHz in semi-anechoic chambers or free field. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber.

The receiving antennas are conform with specifications ANSI C63.2-1996 clause 15 and ANSI C63.4-2003 clause 4.1.5. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test set-ups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received.

The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.4-2003 clause 4.2.

Antennas are conform with ANSI C63.2-1996 item 15.

150 kHz - 30 MHz: Quasi Peak measurement, 9kHz Bandwidth, passive loop antenna.

30 MHz - 200 MHz: Quasi Peak measurement, 120KHz Bandwidth, biconical antenna 200MHz - 1GHz: Quasi Peak measurement, 120KHz Bandwidth, log periodic antenna

>1GHz: Average, RBW 1MHz, VBW 10 Hz, wave guide horn

All measurement settings are according to FCC 15.209 and 15.207

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4 FCC Part 15 Subpart C

4.1 Timing of the transmitter

Not applicable

Reference

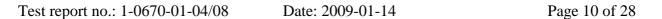
FCC: CFR Part SUBCLAUSE § 15.35 (c)
IC: RSS 210, ISSUE 7 6.5 Pulsed operation

Limits: § 15.35 (c)

(c) Unless otherwise specified, e.g. Section 15.255(b), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

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4.2 Field strength of emissions

Reference

FCC: CFR Part SUBCLAUSE § 15.223

IC: RSS 210, Annex 2.6

Maximum output power (quasi peak) - (radiated)

Measured at 1 m distance, recalculated to 3m and 30m according to FCC part15.31 (f2) (here 20 dB / 60 dB)

TEST CO	NDITIONS	MAXIMUM POV	WER (dBμV/m)
Frequency		3.84 MHz	3.84 MHz
		@ 3 m	Calculated @ 30m
T _{nom} +23 °C		13.7	-26.3
Measuremen	nt uncertainty	±3d	В

RBW/VBW:200~Hz up to 150~kHz, 9~kHz up to 30~MHz, 120~kHz up to 1~GHz

Limits

SUBCLAUSE § 15.209(a)/223

Fundamental Frequency (MHz)	Field strength of Fundamental (µV/m)	Measurement Distance (meters)
0.009 - 0.490	2400 / F (kHz)	300
0.490 - 1.705	24000 / F (kHz)	30
1.705 – 30.0	30 (29.5 dBμV/m)	30
30.0 - 88.0	100 (40 dBμv/m)	3
88 - 216	$150 (43.5 \text{ dB}\mu\text{V/m})$	3
216 – 960	$200 (46 \text{ dB}\mu\text{V/m})$	3
15.223: 1.075 to 10 MHz	$15 (23.5 \text{ dB}\mu\text{V/m})$	30

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Field strength of the harmonics and the spurious

- Date: 2009 01 11 Tage 11 01 20

Reference

4.3

FCC: CFR Part SUBCLAUSE § 15.209 (a)

IC: RSS 210, Annex 2.6

	EMISSION LIMITATIONS										
f (MHz)		amplitude of emission $(dB\mu V/m)$ Average/QP	limit max. allowed field strength		results						
3.84		-26.3 dBµV/m @30m	29.5 dBµV/m @30m	Operating frequency	Pass						
Maria				. 2.ID							
Meas	surer	nent uncertainty		± 3dB							

RBW/VBW: 200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz

Limits SUBCLAUSE § 15.209 (a)

Fundamental Frequency	Field strength of	Measurement Distance
(MHz)	Fundamental (µV/m)	(meters)
0.009 - 0.490	2400 / F (kHz)	300
0.490 - 1.705	24000 / F (kHz)	30
1.705 - 30.0	$30 (29.5 \text{ dB}\mu\text{V/m})$	30
30.0 - 88.0	$100 (40 \text{ dB}\mu\text{v/m})$	3
88 - 216	$150 (43.5 dB\mu V/m)$	3
216 – 960	200 (46 dBµV/m)	3







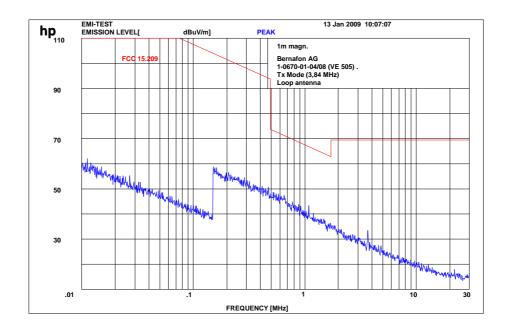


Plots of measurements

Plot 1:

Part 15.209 Magnetics

Measured in 1 m distance due to the very low output power level.



RBW/VBW: 200 Hz up to 150 kHz, 9 kHz up to 30 MHz, 120 kHz up to 1 GHz

(to convert the measuring distance to 3m, to 30m and to 300m a correction factor from 40 dB/decade was used. Here we use 60 dB to recalculate from 1m to 30m)

Measurement distance 1 m

This measurement was done in 3 planes, the plot shows the worst case

Limits

SUBCLAUSE § 15.209

Frequency (MHz)	Field strength (μV/m)	Measurement distance (m)
0.0009 - 0.490	2400 / F (kHz)	300
0.490 - 1.705	24000 / F (kHz)	30
1.705 - 30	30 (29.5 dBµV/m)	30
30 - 88	100 (40 dBμv/m)	3
88 - 216	150 (43.5 dBμV/m)	3
216 - 960	200 (46 dBμV/m)	3



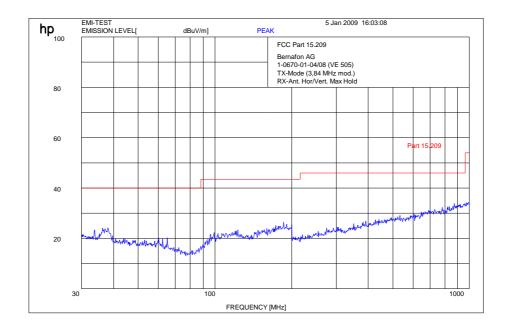


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Plot 2:

TX (30 MHz to 1 GHz)



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Test equipment and ancillaries used for tests

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

All reported calibration intervals are calibrations according to the EN/ISO/IEC 17025 standard. These calibrations were performed from an accredited external calibration laboratory.

Additional to these calibrations the laboratory performed comparison measurements with other calibrated systems and performed a weekly chamber inspection.

All used devices are connected with a 10 MHz external reference.

According to the manufacturers' instruction is it possible to establish a calibration interval for the FSP unit of 24 month, if the device has an external 10 MHz reference.

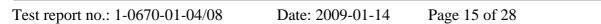
Anechoic chamber C:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Anechoic chamber	MWB	87400/02	300000996	Monthly verification		•
2	System-Rack 85900	HP I.V.	*	300000222	n.a.		
3	Measurement System 1						
4	Spektrum Analyzer 8566B	HP	3138A07614	300001207	13.12.2007	24	13.12.2009
5	Spektrum Analyzer Display 85662A	HP	3144A28627	300001208	13.12.2007	24	13.12.2009
6	Quasi-Peak-Adapter 85650A	HP	2811A01204	300002308	13.12.2007	24	13.12.2009
7	RF-Preselector 85685A	HP	2837A00778	300002448	13.12.2007	24	13.12.2009
8	PC Vectra VL	HP		300001688	n.a.		
9	Software EMI	HP		300000983	n.a.		
10	Measurement System 2						
11	FSP 30	R&S	100886	300003575	25.08.2008	24	25.08.2010
12	PC	F+W			n.a.		
13	TILE	TILE			n.a.		
14	Biconical antenna	EMCO	S/N: 860 942/003		Monthly verifica	ntion (System cal.)
15	Log. Period. Antenna 3146	EMCO	2130	300001603	Monthly verifica	ntion (System cal.)
16	Double Ridged Antenna HP 3115P	EMCO	3088	300001032	Monthly verifica	ntion (System cal.))
17	Active Loop Antenna 6502	EMCO	2210	300001015	Monthly verifica	ntion (System cal.)
18	Power Supply 6032A	HP	2818A03450	300001040	12.05.2007	36	12.05.2010
19	Busisolator	Kontron		300001056	n.a.		
20	Leitungsteiler 11850C	HP		300000997	Monthly verifica	Monthly verification (System cal.)	
21	Power attenuator 8325	Byrd	1530	300001595	Monthly verification (System cal.)		
22	Band reject filter WRCG1855/1910	Wainwright	7	300003350	Monthly verification (System cal.)		
23	Band reject filter WRCG2400/2483	Wainwright	11	300003351	Monthly verifica	ation (System cal.))

Climatic Box:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Climatic box VT 4002	Heraeus Vötsch	58566046820010	300003019	11.05.2007	24	11.05.2009
2	Climatic box CTS T-40/50	CTS	064023	300003540	03.01.2007	24	03.01.2009





SRD Laboratory Room 002:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	System Controller PSM 12	R&S	835259/007	3000002681-00xx	n.a.		
2	Memory Extension PSM-K10	R&S	To 1	3000002681	n.a.		
3	Operating Software PSM-B2	R&S	To 1	3000002681	n.a.		
4	19" Monitor		22759020-ED	3000002681	n.a.		
5	Mouse		LZE 0095/6639	3000002681	n.a.		
6	Keyboard		G00013834L461	3000002681	n.a.		
7	Spectrum Analyser FSIQ 26	R&S	835540/018	3000002681-0005	10.01.2008	24	10.01.2010
8	Tracking Generator FSIQ-B10	R&S	835107/015	3000002681	s.No.7		
10	RF-Generator SMIQ03 (B1 Signal)	R&S	835541/056	3000002681-0002	26.08.2008	36	26.08.2011
11	Modulation Coder SMIQ-B20	R&S	To 10	3000002681	s.No.10		
12	Data Generator SMIQ-B11	R&S	To 10	3000002681	s.No.10		
13	RF Rear Connection SMIQ- B19	R&S	To 10	3000002681	s.No.10		
14	Broadband horn antenna (1-18 GHz)	EMCO	9107-3696	300001604	16.04.2008	24	16.04.2010
15	Broadband horn antenna (1-18 GHz)	EMCO	9107-3697	300001605	21.08.2008	24	21.08.2010
16	Std gain horn antenna (18-26.5 GHz)	Narda	Model no. 638	3000000486	n.a.		
17	Std gain horn antenna (18-26.5 GHz)	Narda	Model no. 638	3000000487	n.a.		
18	Sleeve dipole antenna Model 3126-880	ETS- Lindgren	00040887	3000000	n.a.		
19	Fast CPU SM-B50	R&S	To 10	3000002681	s.No.10		
20	FM Modulator SM-B5	R&S	835676/033	3000002681	s.No.10		
21	RF-Generator SMIQ03 (B2 Signal)	R&S	835541/055	3000002681-0001	25.08.2008	36	25.08.2011
22	Modulation Coder SMIQ-B20	R&S	To 16	3000002681	s.No.16		
23	Data Generator SMIQ-B11	R&S	To 16	3000002681	s.No.16		
24	RF Rear Connection SMIQ- B19	R&S	To 16	3000002681	s.No.16		
25	Fast CPU SM-B50	R&S	To 16	3000002681	s.No.16		
26	FM Modulator SM-B5	R&S	836061/022	3000002681	s.No.16		
27	RF-Generator SMP03 (B3 Signal)	R&S	835133/011	3000002681-0003	26.08.2008	36	26.08.2011
28	Attenuator SMP-B15	R&S	835136/014	3000002681	S.No.22		
29	RF Rear Connection SMP-B19	R&S	834745/007	3000002681	S.No.22		
30	Power Meter NRVD	R&S	835430/044	3000002681-0004	26.08.2008	24	26.08.2010
31	Power Sensor NRVD-Z1	R&S	833894/012	3000002681-0013	26.08.2008	24	26.08.2010
32	Power Sensor NRVD-Z1	R&S	833894/011	3000002681-0010	26.08.2008	24	26.08.2010
33	Rubidium Standard RUB	R&S		3000002681-0009	27.08.2008	24	27.08.2010
34	Switching and Signal Conditioning Unit SSCU	R&S	338864/003	3000002681-0006	Verified with pa	th compensation	
35	Laser Printer HP Deskjet 2100	HP	N/A	3000002681-0011	n.a.	1	1
36	19" Rack	R&S	11138363000004	3000002681	n.a.		
37	RF-cable set	R&S	N/A	3000002681	n.a.		
39	IEEE-cables	R&S	N/A	3000002681	n.a.		
40	Sampling System FSIQ-B70	R&S	835355/009	3000002681	s.No.7		
41	RSP programmable attenuator	R&S	834500/010	3000002681-0007	26.08.2008	24	26.08.2010
42	Signalling Unit	R&S	838312/011	3000002681	n.a.		
43	NGPE programmable Power Supply for EUT	R&S	192.033.41	3000002681			
44	Power Splitter 6005-3	Inmet Corp.	none	300002841	23.12.2006	24	23.12.2008
45	SMA Cables SPS-1151-985-	Insulated	different	different	n.a.	27	23.12.2006
+5	SPS	Wire	different	uniciciit	II.a.		





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46	CBT32 with EDR Signaling	R&S				
	Unit					
47	Coupling unit	Narda	N/A		n.a.	
48	2xSwitch Matrix PSU	R&S	872584/021	300001329	n.a.	
49	RF-cable set	R&S	N/A	different	n.a.	
50	IEEE-cables	R&S	N/A		n.a.	

Note: 3000002681-00xx inventoried as a system

Anechoic chamber F:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Control Computer	F+W	FW0502032	300003303	-/-	-/-	-/-
2	Trilog Antenna	9163-295	-/-	-/-	30.04.2008	24	30.04.2010
3	Amplifier - 0518C-138	Veritech Micro- wave Inc.	-/-	-/-	-/-	-/-	-/-
4	Switch - 3488A	HP		300000368	-/-	-/-	-/-
5	EMI Test receiver - ESCI	R&S	100083	300003312	31.01.2007	24	31.01.2009
6	Turntable Controller - 1061 3M	EMCO	1218	300000661	-/-	-/-	-/-
7	Tower Controller 1051 Controller	EMCO	1262	300000625	-/-	-/-	-/-
8	Tower - 1051	EMCO	1262	300000625	-/-	-/-	-/-
10	Ultra Notch-Filter Rejected band Ch. 62	WRCD	9	-/-	-/-	-/-	-/-

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5 Annex B: Photographs of Test site

Photo 1 (Radiated Emissions):





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Photo 2 (Radiated Emissions):



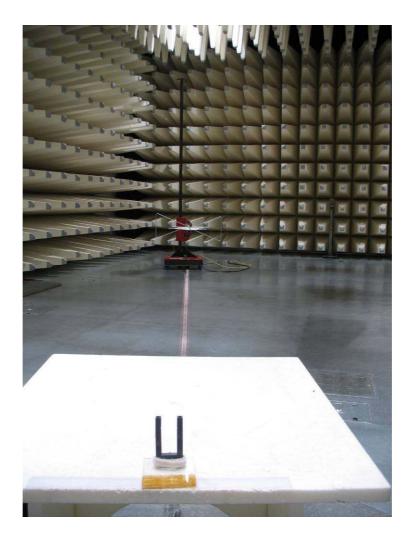


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Photo 3 (Radiated Emissions):





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6 Annex C: External Photographs of the Equipment

Photo 1:



Photo 2:



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Photo 3:

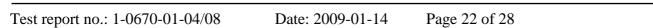


Photo 4:



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 Fax: -9075

 RSC-Laboratory
 Phone: +49 (0) 681 598-0
 Fax: -9075



7 Annex D: Internal Photographs of the Equipment

Photo 5:



Photo 6:



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Photo 7:



Photo 8:



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Photo 9:



Photo 10:



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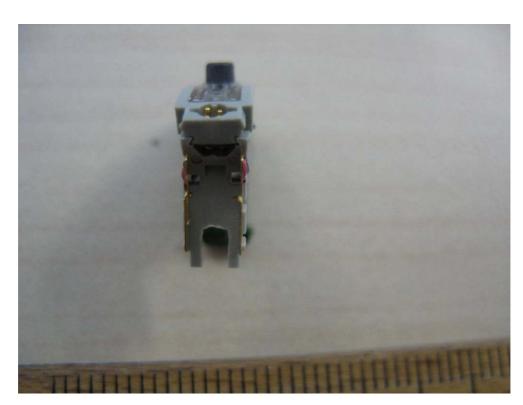
Phone: +49 (0) 681 598-0 Phone: +49 (0) 681 598-0 Fax: -9075 Fax: -9075 **CETECOM**

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Photo 11:



Photo 12:



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Photo 13:



Photo 14:



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Photo 15:



Photo 16:



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Photo 17:

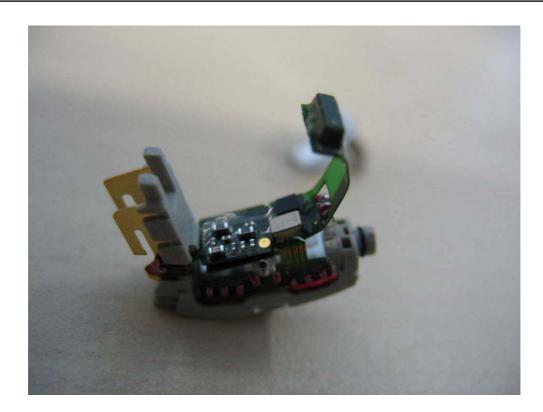


Photo 18:

