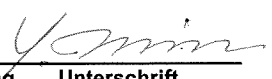




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Test Report No.:					
<b>Auftraggeber:</b> KYOCERA Document Solutions Inc.					
Client: 1-2-28 Tamatsukuri, Chuo-ku ,Osaka-shi,Osaka,540-8585 Japan					
<b>Gegenstand der Prüfung:</b> Facsimile Kit for Multi Function Printer					
Test item:					
<b>Bezeichnung:</b> FAX System 10		<b>Serien-Nr.:</b>		<b>Prototype</b>	
Identification:		Serial No.:			
<b>Wareneingangs-Nr.:</b> A000181838-001		<b>Eingangsdatum:</b> 2015-04-06			
Receipt No.:		Date of receipt:			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b>			Prüfmuster vollständig und unbeschädigt		
Condition of the test item at delivery:			Test item complete and undamaged		
<b>Prüfort:</b> TÜV Rheinland Japan Ltd.					
Testing location: 4-25-2, Kita-Yamata, Tuzuki-ku, Yokohama 224-0021, Japan					
Phone:+81-45-914-0239 Fax:+81-45-914-3347 e-mail: telecom-lab@jpn.tuv.com					
<b>Prüfgrundlage:</b> EG 201 121 V1.1.3 (2000 - 02)					
Test specification: Exceptions see below					
<b>Prüfergebnis:</b> Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).					
Test Result: The test item passed the test specification(s).					
<b>Prüflaboratorium:</b> TÜV Rheinland Japan Ltd.					
Testing Laboratory: 4-25-2, Kita-Yamata, Tuzuki-ku, Yokohama 224-0021, Japan					
Phone:+81-45-914-0239 Fax:+81-45-914-3347 e-mail: telecom-lab@jpn.tuv.com					
<b>geprüft/ tested by:</b>			<b>kontrolliert/ reviewed by:</b>		
2015-05-21, Y.Miura 			2015-05-21, M. Zietz 		
Datum	Name/Stellung	Unterschrift	Datum	Name/Stellung	Unterschrift
Date	Name/Position	Signature	Date	Name/Position	Signature
<b>Sonstiges/ Other Aspects:</b> DE08/NO02/ES01 are applied without 60mA current limit. AN003, AN004, AN013, AN014, AN015, AN017, DE17, GR02/P10 and P04 are not covered by this test. <b>Accredited Testing Laboratory under the terms of ISO 17025</b> <b>D-PL-12059-01-03</b>					
 <b>Deutsche Akkreditierungsstelle</b>					
* Legende: 1 = sehr gut      2 = gut      3 = befriedigend      4 = ausreichend      5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n)      F(ail) = entspricht nicht o.g. Prüfgrundlage(n)      N/A = nicht anwendbar      N/T = nicht getestet Legend: 1 = very good      2 = good      3 = satisfactory      4 = sufficient      5 = poor P(ass) = passed a.m. test specification(s)      F(ail) = failed a.m. test specification(s)      N/A = not applicable      N/T = not tested					
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>					

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**Appendix B: Description of the equipment ..... 0 pages**

**Appendix C: Circuit Diagrams..... 0 pages**

**Appendix D: Photographs ..... 0 pages**

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## Test result:

No deviations have been found from the technical requirements during the tests.



The deviations from the technical requirements found during the tests are enclosed this report.



Questions about the test report please inform Mr. M. Zietz.

Phone: +81-45-914-0239

Fax: +81-45-914-3347

e-mail: mz@jpn.tuv.com

## Climatic conditions during testing

Temperature: 23 - 25 °C

Air pressure: 1020 - 1020 hPa

Humidity: 45 - 55 %

## Appliance documentation

Hardware: -

Software: -

User manual :FAX System 10 FAX Specification

Circuit diagram:FAX SUB PCB(1/1)

## Test system configuration

Hardware: FAX System 10

Software: 001.005

## Test Sample Configuration

☐ One - Port - TE (only a1/b1)

☒ Two - Port TE (a1/b1 and a2/b2)

☒ DTMF dialling function

☐ Decadic pulse dialling function

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## Measurement equipment list

Measuring instrument	Identification	Calibration due date
Automatic Measurement System AMS from ESP-Telekom	TL-9000	2015-10-28
Outband Receiver and Ringer Amplifier ARE1000 from ESP-Telekom	TL-9101	2015-10-28
International Feeding Bridge ISB1000 from ESP-Telekom	TL-9002	2015-10-28
Fluke Digital True RMS Multimeter	TL-9122	2015-10-14
Tektronix OscilloscopeTDS1012B	TL-9119	2015-08-13
Tektronix / Voltage Probe I / II	TL-9125, TL-9126	2015-08-13
TRJ Connector Box	TL-9010	2016-02-12
TRJ Resistor Box	TL-9011	2016-02-12
TRJ Reference Impedance Zref-quer TBR21, Type28	TL-9020, TL-9021	2016-02-12
TRJ Reference Impedance Zref-längs TBR21, Type 29	TL-9022	2016-02-12
TRJ Reference Impedance 150 Ohm crosswise, Type 50	TL-9033	2016-01-13
ESP Polarity Switch	TL-9042	2016-02-12

## Measurement uncertainties

	Measuring	Measurement Uncertainty K=2	
AN 01	Automatic Dialling	Time	: ±0.24 ms
AN 02	Ringing signal detector sensitivity	AC Voltage	: ±0.28 V
AN 03	Variation of signals supplied by the PSTN	Time	: ±0.24 ms
AN 04	DTMF and CEPT recommendations	Level	: ± 1dB
AN 05	Automatic line clearing	Time	: ±58 ms
AN 06	Resistance to earth	Resistance	: ±0.17MΩ
AN 07	Control requirements in case of power failure	Time DC Current <sub>(10mA)</sub> DC Current <sub>(0.5mA)</sub>	: ±8.2µs : ±0.12 mA : ±0.006 mA
AN 09	Instantaneous voltage tested over a wider freq. Range	Level	: ±0.28V
AN 10	Sending levels according to TBR 15	30Hz-200Hz:Level: 200Hz-4.3kHz:Level:	: ±2.1dB : ±1.6dB
AN 11	Establishment of loop for automatic answer	Time Voltage	: ±1.2 ms : ±0.26 V
AN 12	Transition after change to opposite polarity	Time Current	: ±59 ms : ±0.74 mA
AN 13	Test Methods of TBR21 to voice stimulated TE	Maximum mean sending level	Level : ±1.0 dB
		Maximum instantaneous voltage	Level: ±0.28V
		Maximum voltage in 10Hz bandwidth	30Hz-200Hz:Level: ±2.1dB 200Hz-4.3kHzLevel: ±1.6dB
DE 03/GR 03/N 01	Sending level in quiescent state should be same as in loop state		
DE 04/GR 04/	Receiving signals having a long duration	Time Voltage <sub>(63V)</sub> Voltage <sub>(85V)</sub>	: ±12 ms : ±0.36 V : ±0.44 V
DE 05/GR 01/P 08	Seizing the line without making a call		
DE 08	Lower limit voltage in DC characteristics	Voltage: Current:	: ±0.06V : ±0.82mA
DE 09	Return loss during DTMF dialing	Return loss	: ±0.36 dB
DE 12	Output signal balance during DTMF	Level:	: ±0.28dB
DE 14	Improvement for transition from loop to quiescent state	Time: Current(10mA): Current(0.5mA):	: ±8.2µs : ±0.12mA : ±0.006mA
DE 17	Definition of a feeding bridge		
GR 02/P 10			
P 03	Impedance in quiescent state for voice and 12kHz signals	Impedance	: ±35 Ω
P 04	Series DC resistance	DC Current <sub>(10mA)</sub> Resistance	: ±0.2 mA : ±1.0Ω
P 04	Insertion loss at series connection	Insertion loss	: ±0.095 dB
ES 01/NO 02	DC current and loop resistance	"Voltage: Current:"	: ±0.06V : ±0.82mA"

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## Summary Report: EG 201 121

<b>All Countries</b>					
<b>Requirements</b>				<b>N/A N/T fail OK</b>	<b>Appendix A</b>
<b>ATAAB AN 002, ATAAB AN 003</b> <b>Ringing signal detector sensitivity:</b> Ringing Voltage: 24Vrms - 90Vrms Ringing Frequency: 20 Hz - 62.5Hz Feeding Voltage: 48 VDC - 66VDC Ringing Cadence: 0.8s / 6s, 1.2s/4s				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	3-4
<b>Dial tone detection</b>				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>Frequency</b>	<b>Level</b>	<b>Timing</b>	<b>Start dialling after</b>		
300 Hz	- 35 dBm / 0 dBm	Continue	s / s	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
425 Hz	- 35 dBm / 0 dBm	Continue	s / s	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
550 Hz	- 35 dBm / 0 dBm	Continue	s / s	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
570 Hz	- 35 dBm / 0 dBm	Continue	s / s	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
600 Hz	- 35 dBm / 0 dBm	Continue	s / s	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
630 Hz	- 35 dBm / 0 dBm	Continue	s / s	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
425 Hz	- 35 dBm	1000/ 100 ms	s	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
425 Hz	- 5 dBm	320 / 20 ms	s	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>ATAAB AN 004</b> <b>DTMF signalling:</b> Unwanted frequencies in the range 250Hz to 4300Hz in the presence of dial tone: > 20 dB  Measurement Result: > dB				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-

<b>ATAAB AN 013</b>					
<b>Voice stimulated TE</b>					
<b>Requirements</b>				<b>N/A N/T fail OK</b>	<b>Appendix A</b>
Mean sending level				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
Instantaneous voltage				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
Voltage level in a 10Hz bandwidth				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
Sending level above 4.3 kHz during communication				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
Output signal balance				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
Longitudinal conversion loss				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-

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Requirements	N/A N/T fail OK	Appendix A
<b>ATAAB AN 014</b> <b>Reduction of the range of line currents:</b> The resistor of 3200 Ohm shall be replaced by a resistor of 2800 Ohm. If declared by manufacturer for use only on lines providing a loop current of 18 mA or greater, the resistor of 2800 Ohm shall be replaced by a resistor of 2300 Ohm.	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>ATAAB AN 015</b> <b>Alternative connection methods:</b> Connection method of multi-line TE, please insert if other than socket: Type of connection	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>ATAAB AN 016</b> <b>Test for compliance of resistance to earth (On-Hook):</b> Resistance to earth with removed feeding bridge and test equipment directly connected to the TE under test. <input checked="" type="checkbox"/> as tested by TBR 21, refer to report 50027980 001. <input type="checkbox"/> with relaxation of this Advisory Note.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	-
<b>ATAAB AN 016</b> <b>Test for compliance of resistance to earth (Off-Hook):</b> Resistance to earth with removed feeding bridge and test equipment directly connected to the TE under test. <input checked="" type="checkbox"/> as tested by TBR 21, refer to report 50027980 001. <input type="checkbox"/> with relaxation of this Advisory Note.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	-
<b>ATAAB AN 017</b> <b>Test impedance for compliance above 4.3 kHz:</b> Applies to TBR 15, TBR 17. Replaced resistor of 120 Ohm with Zr from TBR 21, which means a resistance of 270 Ohms in series with a parallel combination of 750 Ohms and 150 nF.	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-

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Germany					
ATAAB Advisory Notes					
Requirements	N/A	N/T	fail	OK	Appendix A
<b>ATAAB AN 005</b> <b>Automatic clearing of automatically originated or answered PSTN calls:</b> Limit: t < 180s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6
<b>ATAAB AN 006</b> <b>Resistance to earth:</b> Limit: U = 150 V DC => R > 100 kΩ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7
<b>ATAAB AN 007</b> <b>Liberation of Loop condition by the TE in the event of power failure:</b> Limit: In quiescent state within: t < 30 s  Measurement Result: t < 1.73 s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8-9
<b>ATAAB AN 009</b> <b>Instantaneous Voltage in a frequency range from 5 Hz to 4300 Hz:</b> Limit: Upp < 5.0 V  Measurement Result: Upp < 1.20 V  Refer also to test report 50027980 001.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10-16
<b>ATAAB AN 010</b> <b>Sending level in 10 Hz bandwidth:</b> Limit: according TBR15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17-25



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German Advisory Notes					
Requirements	N/A	N/T	fail	OK	Appendix A
<b>DE03</b> <b>Control of sending level in quiescent state:</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32-34
<b>DE04</b> <b>Inter-working after receiving ringing signal having a long duration:</b> $U_{TE\text{ eff}} = 75\text{ V}\sim, 25\text{ Hz}, t = 6.5\text{s}$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35
<b>DE05</b> <b>Restriction on seizing the line without the intent of making a call:</b> Measurement Result: Automatically seizing the line only with the intention to make a call	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-
<b>DE08</b> <b>DC Characteristics:</b> Lower limit of voltage in DC Characteristics, see figure: 'DE 08.1'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36-37
<b>DE09</b> <b>Impedance during DTMF signalling:</b> Limit for the frequency range from 600 Hz to 1700 Hz: > 14 dB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	38-41
<b>DE12</b> <b>Output signal balance:</b> Limits see figure: 'DE 12.1'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	42-45
<b>DE14</b> <b>Transition from loop to quiescent:</b> Limits: Decrease of the current to 0.05 mA within 1s  Measurement Result: t = 0.0 ms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	46
<b>DE17</b> <b>Definition of the feeding bridge:</b>  Measurement Result: The feeding bridge fulfills all requirements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-

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## Greece

### ATAAB Advisory Notes

Requirements	N/A N/T fail OK	Appendix A
<b>ATAAB AN 005</b> <b>Automatic clearing of automatically originated or answered PSTN calls:</b> Limit: $t < 360s$ , for different clearing conditions, see table: 'AN 05.1'	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5
<b>ATAAB AN 006</b> <b>Resistance to earth:</b> Limit: $U = 150 \text{ V DC} \Rightarrow R > 100 \text{ k}\Omega$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	7

### Greece Advisory Notes

Requirements	N/A N/T fail OK	Appendix A
<b>GR01</b> <b>Restriction on seizing the line without the intent of making a call:</b> Measurement Result: Automatically seizing the line only with the intention to make a call	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	-

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<b>GR02 Loop disconnect signalling</b>		
<b>Requirements according ETS 300 001</b>	<b>N/A N/T fail OK</b>	<b>Appendix A</b>
<b>Dialling pulse timing:</b> Limit: Make time ( $t_e - t_i$ ) = 38.5ms $\pm$ 3ms ( $I_h = 12$ mA, $I_g = 18$ mA) Break time ( $t_h - t_g$ ) = 61.5ms $\pm$ 3ms ( $I_e = 18$ mA, $I_i = 12$ mA) Frequency = 10 Hz $\pm$ 1 Hz  Measurement Result: Make time: $t_{M \min} =$ ms; $t_{M \max} =$ ms Brake time: $t_{B \min} =$ ms; $t_{B \max} =$ ms Frequency: $f_{\min} =$ Hz; $f_{\max} =$ ms	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>Break and make pulse period current and loop resistance:</b> Limit: Brake time ( $t_e - t_i$ ) - 6 ms; $I_B < 0.5$ mA Make time ( $t_h - t_g$ ) - 4 ms $I_M > 20, 35, 55$ mA  Measurement Result: $t(I_B < 0.5$ mA) = ms; $t_{M \max} =$ ms Brake time: $t_{B \min} =$ ms; $t_{B \max} =$ ms Frequency: $f_{\min} =$ Hz; $f_{\max} =$ ms	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>Inter-digital pause:</b> Limit: Automatic dialling: $t_h - t_g = 720$ ms - 1000ms Manual dialling : $t_h - t_g > 400$ ms Current $t(I > 20, 35, 55$ mA) $> t_h - t_g - 80$ ms  Measurement Result: Automatic dialling: $t_h - t_g =$ ms Manual dialling : $t_h - t_g =$ ms Current $t(I > 20, 35, 55$ mA) = ms	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>Post pulsing period:</b> Limit: $t(I > 20, 35, 55$ mA) $< 100$ ms  Measurement Result: $t(I > 20, 35, 55$ mA) = ms	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>Spark quenching:</b> Limit: $R = 100\Omega - 200\Omega$ $C = 1.5 \mu F$  Measurement Result: $R =$ $\Omega$ $C =$ $\mu F$	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-

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<b>Greece Advisory Notes</b>		
<b>Requirements</b>	<b>N/A N/T fail OK</b>	<b>Appendix A</b>
<b>GR03</b> Control of sending level in quiescent state:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	32-34
<b>GR04</b> Inter-working after receiving ringing signal having a long duration: $U_{TE\text{ eff}} = 75\text{ V}\sim, 25\text{ Hz}, t = 6.5\text{ s}$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	35

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<b>Portugal</b>		
<b>ATAAB Advisory Notes</b>		
<b>Requirements</b>	<b>N/A N/T fail OK</b>	<b>Appendix A</b>
<b>ATAAB AN 001</b> <b>Automatic Dialling:</b> Limit: Dialling without dial tone: $t = 2.7s - 5s$ Dialling with dial tone: $t < 5s$ Measurement Result: <input checked="" type="checkbox"/> Dialling without dial tone: $t = 4.05 s$ <input checked="" type="checkbox"/> Dialling with dial tone: $t = 0.92 s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1-2
<b>ATAAB AN 005</b> <b>Automatic clearing of automatically originated or answered PSTN calls:</b> Limit: $t < 360s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5
<b>ATAAB AN 006</b> <b>Resistance to earth:</b> Limit: $U = 150 V DC \Rightarrow R > 100 k\Omega$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	7
<b>ATAAB AN 007</b> <b>Liberation of loop condition by the TE in the event of power failure:</b> Limit: Return to quiescent state within: $t < 30 s$ Measurement Result: $t < 1.73 s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	8-9
<b>ATAAB AN 011</b> <b>Establishment of loop for automatic answer:</b> Limit: $t < 2 min$ Measurement Result: $t = 7.09 s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	26-27

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Portugal Advisory Notes		
Requirements	N/A N/T fail OK	Appendix A
<b>P03</b> <b>Input impedance for voice band signal and billing signal in quiescent state:</b> Limit: (Test Signal = 1.5 Vrms) 300 Hz - 4000 Hz $Z > 15 \text{ k}\Omega$ 4 kHz - 15 kHz $Z > 6 \text{ k}\Omega$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	47-48
<b>P04</b> <b>2 - Port - TE</b> <b>4.1 Series DC resistance in loop state:</b> Limit: $R < 100 \Omega$ Measurement Result: R = $\Omega$	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>P04</b> <b>2 - Port - TE</b> <b>4.2 Transition from quiescent state to loop state:</b> Limit: $t < 100 \text{ ms}$ Measurement Result: t =            ms	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>P04</b> <b>2 - Port - TE</b> <b>4.3 Insertion Loss of a Series Terminal Equipment</b> Limit: Insertion Loss $< 1 \text{ dB}$ (Vrms = 1.5V: 300 Hz $< f < 3400 \text{ Hz}$ ) Measurement Result: Maximum Insertion Loss =            dB	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
<b>P08</b> <b>Restriction on seizing the line without the intent of making a call:</b> Measurement Result: Automatically seizing the line only with the intention to make a call.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	-

<b>Portugal Advisory Notes</b>		
<b>P10 Loop disconnect signalling</b> <b>Requirements according 25.01.51.001 - 5.6.1 Decimal Pulse Dialling</b>	<b>N/A N/T fail OK</b>	<b>Appendix A</b>
<b>5.6.1.1 Corresponding of digits and series of pulses</b> Measurement Result: Each digit corresponds to a series of pulse equal to its value. Only '0' is 10 pulses.	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>5.6.1.2 / 3 Break and make pulse period ratio:</b> Limit: Fig. 5.15 (48V; 400Ω) Measurement Result: Make time: $t_M =$ ms Brake time: $t_B =$ ms Frequency: $f =$ Hz	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>5.6.1.4 Pre dialling stage</b> Limit: Fig. 5.16 (45V - 55V; 300Ω - 1800Ω) Measurement Result: The voltage and current of the pre dialling stage are within the limit of Fig.5.16.	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>5.6.1.5 Current during loop openings:</b> Limit: not more than 2 mA after 4 ms and fall of 0.5mA after 6ms. after 6ms the loop current $I < 0.5$ mA (48V; 400Ω) Measurement Result: $I < 2$ mA after ms $I < 0.5$ mA after ms	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>5.6.1.6 Current during loop closing stages:</b> Limit: after 4ms see limit of Fig.5.16 (45V - 55V; 300Ω - 1800Ω) Measurement Result: $I$ (Fig.5.16) after ms	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>5.6.1.7 Inter-digital pause time:</b> Limit: $t_i = 600$ ms - 1000ms (48V; 400Ω) Measurement Result: $t_i =$ ms	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>5.6.1.8 Inter-digital pause current:</b> Limit: after 4ms see limit of Fig.5.16 (45V - 55V; 300Ω - 1800Ω) Measurement Result: $I$ (Fig.5.16) after ms	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
<b>5.6.1.9 Inter-digital pause, Dialling with current interruption:</b> Limit: no alteration by 110 ms loop interruption, 100 ms after the pulse train. $I > 20$ mA, 10 ms after the loop current interruption. (48V; 400Ω) Measurement Result: No alteration to its normal operation caused by loop current interruption	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-

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<b>5.6.1.10 Post pulsing period:</b> Limit: after 4ms of last opening see limit of Fig.5.16 (45V-55V; 300Ω-1800Ω) Measurement Result: I (Fig.5.16) after          ms	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
--	--	---

<b>Spain</b>		
<b>ATAAB Advisory Notes</b>		
<b>Requirements</b>	<b>N/A N/T fail OK</b>	<b>Appendix A</b>
<b>Spain Advisory Notes</b>		
<b>ATAAB AN 005</b> <b>Automatic clearing of automatically originated or answered PSTN calls:</b> Limit: t < 360s	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5
<b>ATAAB AN 007</b> <b>Liberation of Loop condition by the TE in the event of power failure:</b> Limit: In quiescent state within: t < 30 s Measurement Result: t < 1.73 s	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	8-9
<b>ATAAB AN 012</b> <b>Transient after change to the opposite polarity:</b> Limit: see Figure AN 12.1 Measurement Result: Current within the limits of Figure AN 12.1	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	28-31
<b>ES 01</b> <b>DC current and loop resistance:</b> Limit: see Table ES 01.1	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	36-37



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<b>Switzerland</b>		
<b>ATAAB Advisory Notes</b>		
<b>Requirements</b>	<b>N/A N/T fail OK</b>	<b>Appendix A</b>
<b>Switzerland Advisory Notes</b>		
<b>ATAAB AN 002</b> <b>Ringling signal detector sensitivity:</b>  Measurement Result: Detecion of 24Vrms ringing signal	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	3-4

<b>Norway</b>		
<b>ATAAB Advisory Notes</b>		
<b>Requirements</b>	<b>N/A N/T fail OK</b>	<b>Appendix A</b>
<b>Norwegian Advisory Notes</b>		
<b>ATAAB AN 002</b> <b>Ringling signal detector sensitivity:</b> Measurement Result: Detecion of 24Vrms ringing signal	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	3-4
<b>ATAAB AN 005</b> <b>Automatic clearing of automatically originated or answered PSTN calls:</b> Limit: $t < 180s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6
<b>ATAAB AN 007</b> <b>Liberation of Loop condition by the TE in the event of power failure:</b> Limit: In quiescent state within: $t < 30 s$  Measurement Result: $t < 1.73 s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	8-9
<b>NO01</b> <b>Control of sending level in quiescent state:</b>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	32-34
<b>NO02</b> <b>DC current and loop resistance:</b> Limit: see Table NO 02.1	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	36-37

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*Test Report No.:*

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**Anlage A**  
Appendix A

**Messergebnisse**  
Measuring results

Protocol for Automatic dialling

AN 001 Dialling without dial tone detection

=====

Model No.	: FAX System 10	Feeding voltage	: 50.0 V
TEUT	: Facsimile Kit for MFP	Polarity	: Normal
Number of TEUT	: 214060892	Feeding resistor	: 850.0 Ohm
Manufacturer	: KYOCERA DS Inc.	Feeding bridge	: TBR21
Date	: 18.05.15	Receiver impedance	: Zr TBR21
Time	: 17:33.42	Gain (internal)	: +0.0 dB

Data set : AN001  
Requirement : The TE shall start dialling in the limits of 2.7 s ... 5.0s  
Remark : -

Verdict : PASS

Frequency Hz	Level dBV	T seize s	T dial s	Dialled
-----------------	--------------	--------------	-------------	---------

No dial tone		4.05	-	1?
--------------	--	------	---	----

# Protocol for Automatic dialling

AN 001 Dialling with dial tone detection - Continous dial tone -

```

=====
Model No.      : FAX System 10      Feeding voltage  : 50.0 V
TEUT           : Facsimile Kit for MFP  Polarity         : Normal
Number of TEUT : 214060892          Feeding resistor : 850.0 Ohm
Manufacturer   : KYOCERA DS Inc.     Feeding bridge   : TBR21
Date           : 18.05.15            Receiver impedance: Zr TBR21
Time           : 17:35.23            Gain (internal)  : +0.0 dB
  
```

Data set : AN001 with dial tone  
 Requirement : The TE shall start dialling in the limits of 0.0 s ... 5.0s

Remark : -

Verdict : PASS

Frequency Hz	Level dBV	T seize s	T dial s	Dialled
300	- 0.7	3.73	0.76	1??
300	-35.7	3.89	0.92	1?
500	-35.7	3.71	0.76	1?
500	- 0.7	3.70	0.75	1?

Protocol for Automatic answering function Auto

AN 002 Ringing signal detector sensitivity (24V) - Auto answer

```

=====
Model No.      : FAX System 10      Feeding voltage   : 48.0 V
TEUT           : Facsimile Kit for MFP Current limitation: 40.0 mA
Number of TEUT: 214060892          Polarity          : Normal
Manufacturer   : KYOCERA DS Inc.    Feeding resistor  : 850.0 Ohm
                                           Trigger event     : 1. pos. Edge
Date           : 18.05.15           Gain (internal)   : -30.0 dB
Time           : 17:47.16

Data set       : AN-02-03 N
Requirement    : The TE shall be able to respond to ringing signals of 24 Vrms.

Remarks      : Tested were also further ringing signals as advised in AN 003
                and listed below.
                -
    
```

Verdict : PASS

Cycles	Frequency	Ute	1.Pulse	Pulse	Pause	Answering
13	20.0	24.0	800	800	6000	7.87
13	60.0	24.0	1200	1200	4000	6.29
13	20.0	90.0	1200	1200	4000	6.30
13	60.0	90.0	800	800	6000	7.88

# Protocol for Automatic answering function Auto

AN 002 Ringing signal detector sensitivity (24V) - Auto answer

```
=====
Model No.      : FAX System 10      Feeding voltage   : 48.0 V
TEUT           : Facsimile Kit for MFP Current limitation: 40.0 mA
Number of TEUT: 214060892          Polarity          : Inverted
Manufacturer   : KYOCERA DS Inc.    Feeding resistor  : 850.0 Ohm
Date           : 18.05.15           Trigger event     : 1. pos. Edge
Time           : 17:53.40           Gain (internal)   : -30.0 dB

Data set       : AN-02-03 I
Requirement    : The TE shall be able to respond to ringing signals of 24 Vrms.

Remarks      : Tested were also further ringing signals as advised in AN 003
                and listed below.
                -
```

Verdict : PASS

Cycles	Frequency	Ute	1.Pulse	Pulse	Pause	Answering
13	20.0	24.0	800	800	6000	7.89
13	60.0	24.0	1200	1200	4000	6.29
13	20.0	90.0	1200	1200	4000	6.30
13	60.0	90.0	800	800	6000	7.90

# Protocol for Liberation of loop condition

Liberation of loop condition  
EG 201 121/AN-05

Date : 18.05.15 Feeding Voltage : 50.0 V  
Time : 18:01.52 Polarity : Normal  
Operator : Y. Miura Current limitation : 100.0 mA  
Commission : 214060892 Feeding Bridge : TBR21  
TEUT : Facsimile Kit for MFP  
Manufacturer : KYOCERA DS Inc.  
Parameter set : AN-05,A.3.1 2050 Ohm N

Remark : -  
Verdict : PASS Requirement [s] : 0.0 .. 360.0 s

Frequency Hz	Level dBm	td s	ton ms	toff ms	Disconnect after s
425	- 30.0	360.0	200	200	3.3
425	- 30.0	360.0	200	200	
			200	600	2.5
425	- 30.0	360.0	200	200	
			200	200	
			200	600	2.1
0	- 30.0	0.0	0	0	57.1

# Protocol for Liberation of loop condition

Liberation of loop condition  
EG 201 121/AN-05

Date	: 18.05.15	Feeding Voltage	: 50.0 V
Time	: 18:05.53	Polarity	: Normal
Operator	: Y. Miura	Current limitation	: 100.0 mA
Commission	: 214060892	Feeding Bridge	: TBR21
TEUT	: Facsimile Kit for MFP		
Manufacturer	: KYOCERA DS Inc.		
Parameter set	: AN-05,B.3.1 2050 Ohm N		

Remark	: -	Requirement	[s] : 0.0 .. 180.0 s
Verdict	: PASS		

Frequency	Level	td	ton	toff	Disconnect after
Hz	dBm	s	ms	ms	s

No tone	-	-	-	-	56.9
---------	---	---	---	---	------



# Protocol for Resistance to earth

## Resistance to earth

Date : 18.05.15 Feeding bridge : germany  
 Time : 18:11.51 Waiting Period : 10.0 sec  
 Operator : Y. Miura  
 Test Job : 214060892  
 TEUT : Facsimile Kit for MFP Verdict : PASS  
 Parameter set : AN 06

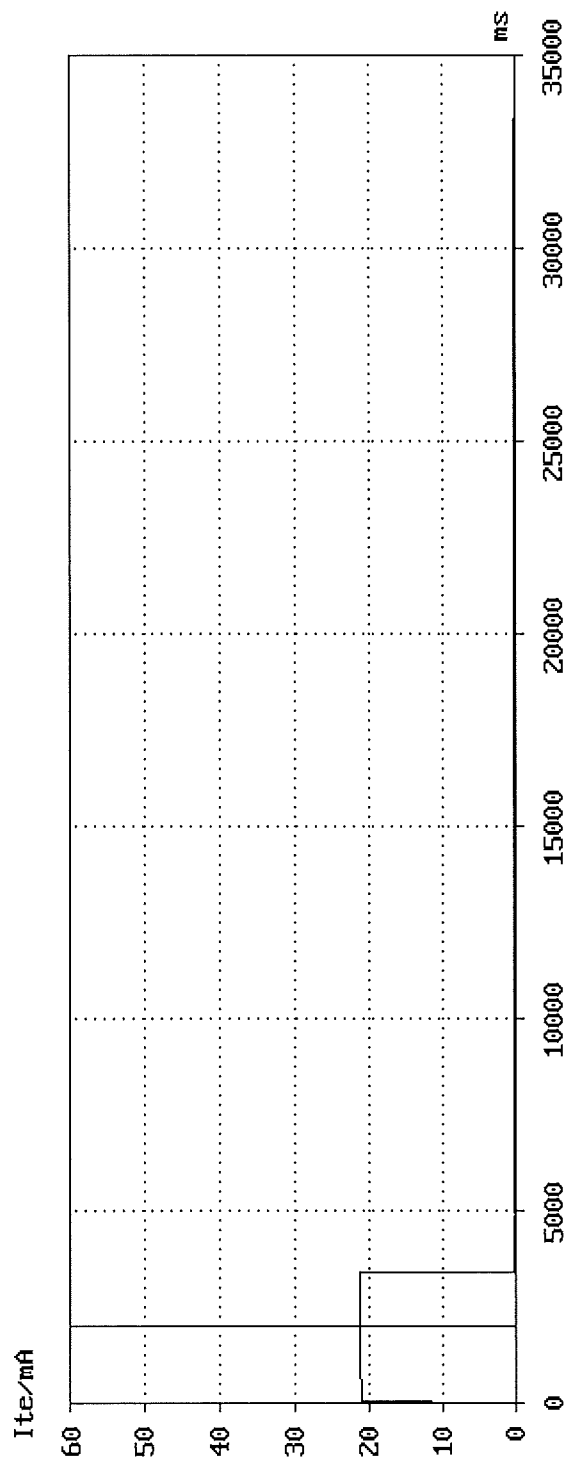
Remark : -

Uf V	Rf $\Omega$	Polarity	Ut V	Rt $\Omega$	Measure	Limit M $\Omega$	Current uA	Resistance M $\Omega$
50.0	1000	Normal	100.0	10000	b - E	10	< 2.0	> 50
50.0	1000	Normal	-100.0	10000	b - E	10	< 2.0	> 50
50.0	1000	Normal	100.0	10000	a - E	10	< 2.0	> 50
50.0	1000	Normal	-100.0	10000	a - E	10	< 2.0	> 50
50.0	1000	Normal	150.0	10000	a - E	0.1	< 3.0	> 50
50.0	1000	Normal	-150.0	10000	a - E	0.1	< 3.0	> 50
50.0	1000	Normal	150.0	10000	b - E	0.1	< 3.0	> 50
50.0	1000	Normal	-150.0	10000	b - E	0.1	< 3.0	> 50

# Liberation of loop condition power failure

EG 201 121/AN-07

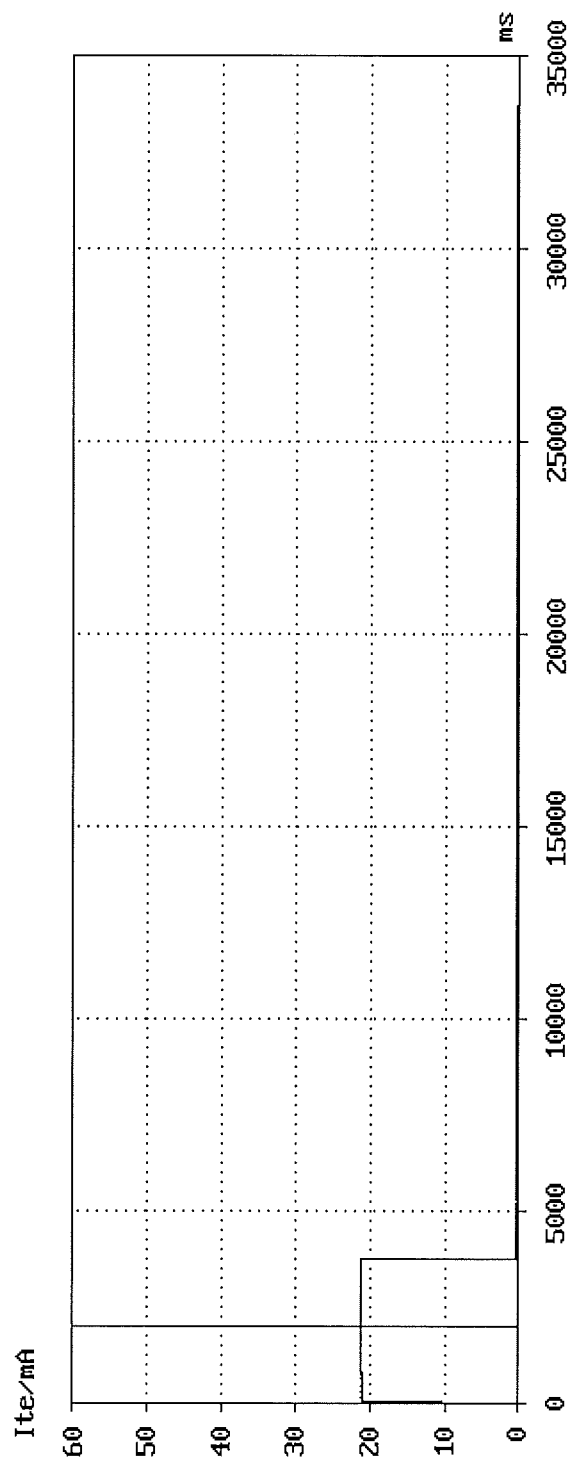
Test Job	: 214060892	Feeding Bridge	: TBR21
TEUT	: Facsimile Kit for MFP	Feeding voltage	: 50.0 V
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 2050.0 Ohm
Operator	: Y. Miura	Polarity	: Normal
Date	: 18.05.15	Limit	: $\leq 30.0$ s
Time	: 18:19.24	Measured value	: 1.37 s
Remark	: -	t0	: 1365 ms
Ite	: 0.02 mA	t01	: 1365 ms
Ute	: 49.96 V	Transient times	: 0.0 ms
TEUT Status	: Quiescent state	Trigger	: OK
Verdict	: PASS	I [mA]	: 10.0



# Liberation of loop condition power failure

EG 201 121/AN-07

Test Job	: 214060892	Feeding Bridge	: TBR21
TEUT	: Facsimile Kit for MFP	Feeding voltage	: 50.0 V
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 2050.0 Ohm
Operator	: Y. Miura	Polarity	: Inverted
Date	: 18.05.15	Limit	: $\leq 30.0$ s
Time	: 18:21.25	Measured value	: 1.735 s
Remark	: -	t0	: 1730 ms
Ite	: 0.02 mA	t01	: 1730 ms
Ute	: 49.96 V	Transient times	: 0.0 ms
TEUT Status	: Quiescent state	Trigger	: OK
Verdict	: PASS	I [mA]	: 10.0



Protocol for Maximum mean sending level

TBR21-4.7.3.1 Mean sending level / TBR21-4.7.3.2 Instantaneous voltage

```
=====
Model No.      : FAX System 10      Feeding voltage   : 50 V
TEUT           : Facsimile Kit for MFP  Current limitation: 80 mA
Number of TEUT : 214060892          Polarity          : Normal
Manufacturer    : KYOCERA DS Inc.    Feeding resistor  : 230  $\Omega$ 
Date            : 14.05.15           Trigger lev./delay: -12.0 dBV 10 msec
Time            : 10:56.31           Receiver impedance: Zr TBR21
                                           Receiver filter   : BP 200-3800 Hz
                                           Call setup        : outgoing
                                           Gain (internal)   : -6.0 dB
=====
```

Data set : TBR21-4.7.3.1 230 N  
Requirement : The mean sending level shall not be greater than -9.7 dBV  
The instantaneous voltage shall not exceed 5.0 Vpp.

Comm. Signal : V.34 33600bps                      Instantaneous Volt: 1.20                      Vpp

Verdict : PASS

Mean level  
dBV

- 13.1

Protocol for Maximum mean sending level

TBR21-4.7.3.1 Mean sending level / TBR21-4.7.3.2 Instantaneous voltage

```
=====
Model No.      : FAX System 10      Feeding voltage   : 50 V
TEUT           : Facsimile Kit for MFP Current limitation: 80 mA
Number of TEUT : 214060892          Polarity          : Inverted
Manufacturer   : KYOCERA DS Inc.    Feeding resistor  : 230 Ω
Date           : 14.05.15           Trigger lev./delay: -12.0 dBV 10 msec
Time           : 11:07.36           Receiver impedance: Zr TBR21
                                           Receiver filter   : BP 200-3800 Hz
                                           Call setup        : outgoing
                                           Gain (internal)   : -6.0 dB
=====
```

Data set : TBR21-4.7.3.1 230 I  
Requirement : The mean sending level shall not be greater than -9.7 dBV  
The instantaneous voltage shall not exceed 5.0 Vpp.

Comm. Signal : V.17 14400bps                      Instantaneous Volt: 1.14                      Vpp

Verdict : PASS

Mean level  
dBV

- 12.9

Protocol for Maximum mean sending level

TBR21-4.7.3.1 Mean sending level / TBR21-4.7.3.2 Instantaneous voltage

```
=====
Model No.      : FAX System 10      Feeding voltage   : 50 V
TEUT           : Facsimile Kit for MFP Current limitation: 80 mA
Number of TEUT : 214060892          Polarity          : Normal
Manufacturer   : KYOCERA DS Inc.     Feeding resistor  : 3200 Ω
Date           : 14.05.15            Trigger lev./delay: -12.0 dBV 10 msec
Time           : 13:57.03            Receiver impedance: Zr TBR21
                                           Receiver filter   : BP 200-3800 Hz
                                           Call setup       : outgoing
                                           Gain (internal)  : -6.0 dB
=====
```

Data set : TBR21-4.7.3.1 3200 N  
Requirement : The mean sending level shall not be greater than -9.7 dBV  
The instantaneous voltage shall not exceed 5.0 Vpp.

Comm. Signal : V.29 9600bps                      Instantaneous Volt: 1.20                      Vpp

Verdict : PASS

Mean level  
dBV

- 13.0

Protocol for Maximum mean sending level

TBR21-4.7.3.1 Mean sending level / TBR21-4.7.3.2 Instantaneous voltage

=====

Model No.	: FAX System 10	Feeding voltage	: 50 V
TEUT	: Facsimile Kit for MFP	Current limitation:	80 mA
Number of TEUT:	214060892	Polarity	: Inverted
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 3200 $\Omega$
Date	: 14.05.15	Trigger lev./delay:	-12.0 dBV 10 msec
Time	: 14:07.31	Receiver impedance:	Zr TBR21
		Receiver filter	: BP 200-3800 Hz
		Call setup	: outgoing
		Gain (internal)	: -6.0 dB

Data set : TBR21-4.7.3.1 3200 I  
Requirement : The mean sending level shall not be greater than -9.7 dBV  
The instantaneous voltage shall not exceed 5.0 Vpp.

Comm. Signal : V.27ter 4800bps Instantaneous Volt: 0.82 Vpp

Verdict : PASS

Mean level  
dBV

- 13.0

Protocol for Maximum mean sending level

TBR21-4.7.3.1 Mean sending level / TBR21-4.7.3.2 Instantaneous voltage

=====

Model No.	: FAX System 10	Feeding voltage	: 50 V
TEUT	: Facsimile Kit for MFP	Current limitation:	80 mA
Number of TEUT:	214060892	Polarity	: Normal
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 230 $\Omega$
Date	: 14.05.15	Trigger lev./delay:	-12.0 dBV 10 msec
Time	: 14:17.06	Receiver impedance:	Zr TBR21
		Receiver filter	: BP 200-3800 Hz
		Call setup	: outgoing
		Gain (internal)	: -6.0 dB

Data set : TBR21-4.7.3.1 230 N

Requirement : The mean sending level shall not be greater than -9.7 dBV  
The instantaneous voltage shall not exceed 5.0 Vpp.

Comm. Signal : V.21 300bps

Instantaneous Volt: 0.68 Vpp

Verdict : PASS

Mean level  
dBV

- 13.0



# DTMF instantaneous voltage

EG 201 121/AN-09

Test Job	: 214060892	Mask violations	: 0
TEUT	: Facsimile Kit for MFP	Measured voltage	: OK
Manufacturer	: KYOCERA DS Inc.	Temporary Voltage	: 5.0 Vpp for 0.0 msec
Operator	: Y. Miura	Feeding Voltage	: 50.0 V
Date	: 18.05.15	Polarity	: Normal
Time	: 18:24.32	Feeding Resistor	: 230.0 Ohm
Remark	: -	Filter	: BP 5-4300 Hz
Verdict	: PASS	Trigger	: OK
		User Operation	: DTMF



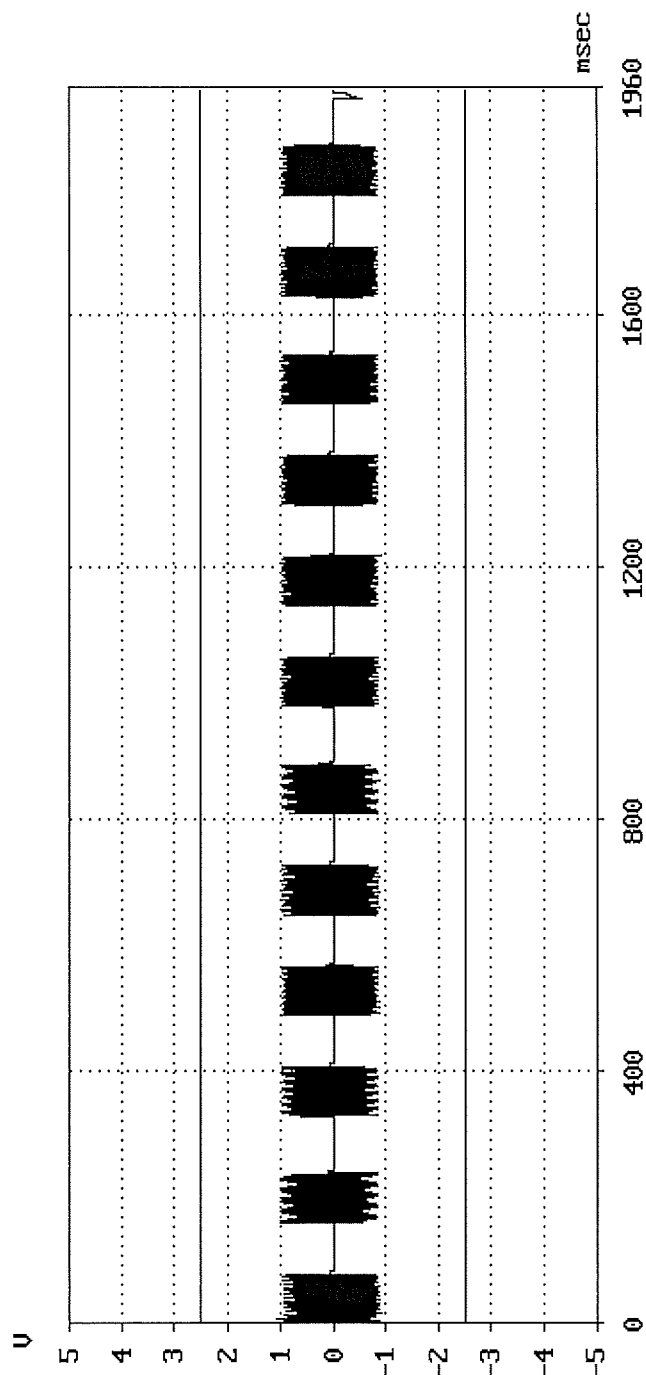
# DTMF instantaneous voltage

EG 201 121/RN-09

Test Job : 214060892 Mask violations : 0  
 TEUT : Facsimile Kit for MFP Measured voltage : OK  
 Manufacturer : KYOCERA DS Inc. Temporary Voltage : 5.0 Vpp for 0.0 msec  
 Operator : Y. Miura Feeding Voltage : 50.0 V  
 Date : 18.05.15 Polarity : Inverted  
 Time : 18:28.04 Feeding Resistor : 3200.0 Ohm  
 Filter : BP 5-4300 Hz

Remark : -

Verdict : PASS  
 Trigger : OK  
 User Operation : DTMF



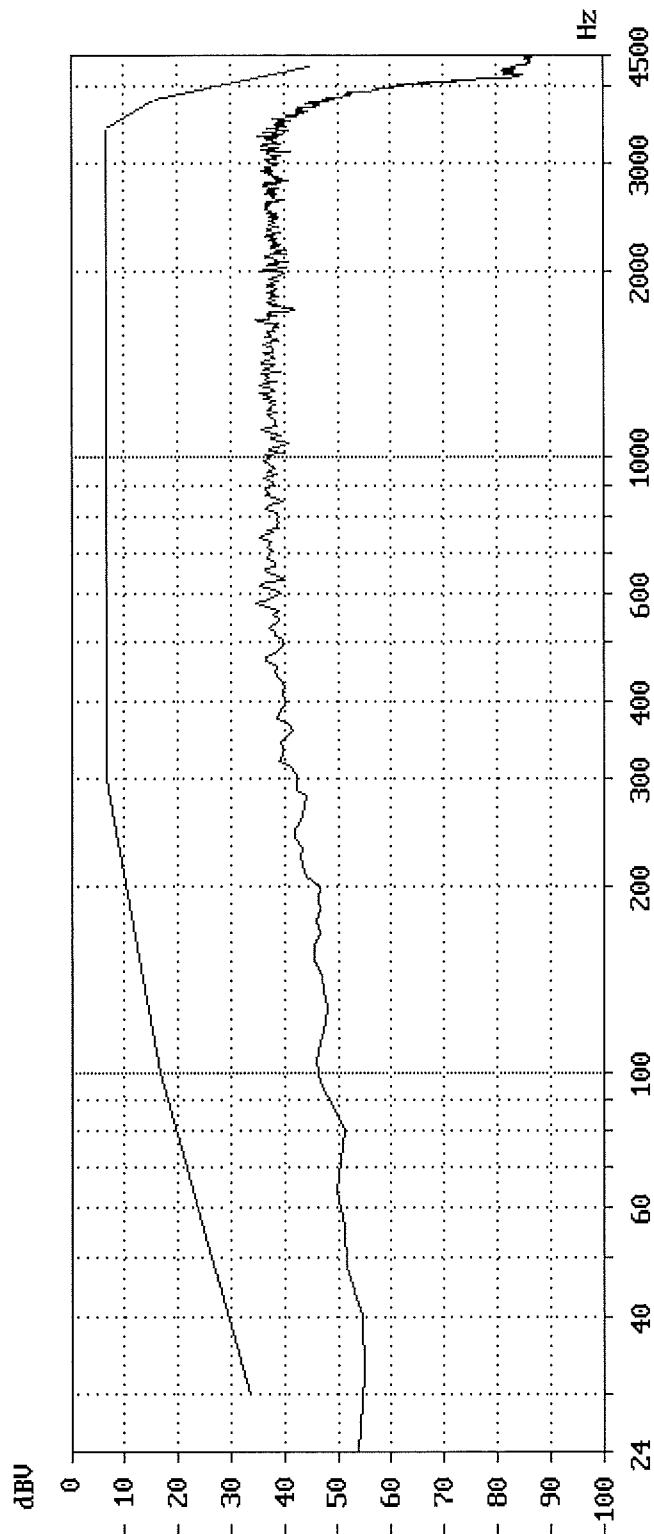
## AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Model No.	: FAX System 10	Feeding voltage	: 50.0 V	Feeding bridge:	TBR21
TEUT	: Facsimile Kit for M000	Current limitation:	80.0 mA	Max. Level	: - 34.7 dBV
Number of TEUT:	214060892	Polarity	: Normal	Frequency	: 577 Hz
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 230.0 Ohm	Rx impedance	: 2r TBR21
Date	: 14.05.15	Requirement:	The voltage shall not exceed the limits	Call setup	: outgoing
Time	: 10:59.09	Data set	: AN10 230 Ohm N		

Remark : U.34 33600bps

Mask violation: 0

Verdict : PASS

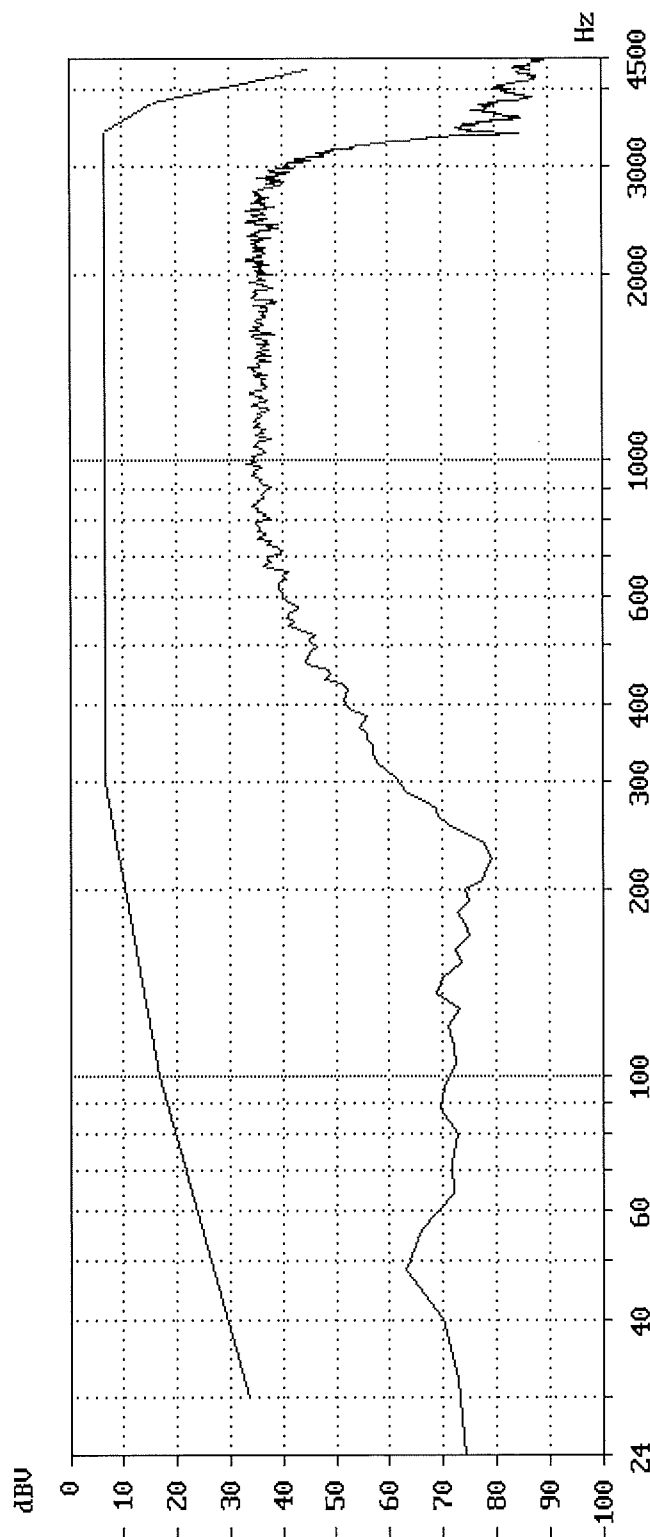


## AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Model No.	: FAX System 10	Feeding voltage	: 50.0 V	Feeding bridge:	TBR21
TEUT	: Facsimile Kit for M2000	Current limitation:	80.0 mA	Max. Level	: - 33.3 dBV
Number of TEUT:	214060892	Polarity	: Inverted	Frequency	: 2436 Hz
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 230.0 Ohm	Rx impedance	: 2r TBR21
Date	: 14.05.15	Requirement:	The voltage shall not exceed the limits	Call setup	: outgoing
Time	: 11:09.50	Data set	: AN10 230 Ohm I		
Remark	: U.17 14400bps				

Mask violation: 0

Verdict : PASS



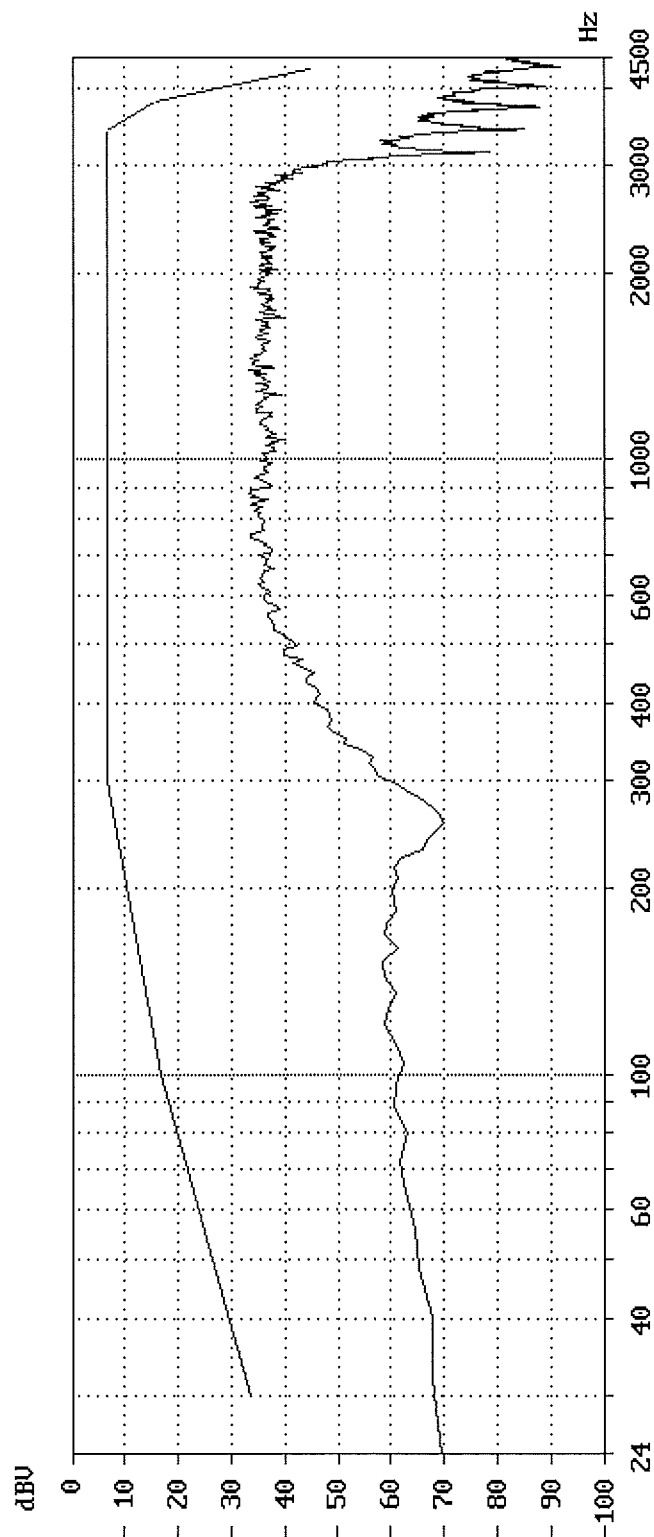
## AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Model No.	: FAX System 10	Feeding voltage	: 50.0 V	Feeding bridge:	TBR21
TEUT	: Facsimile Kit for No. 10	Current limitation:	80.0 mA	Max. Level	: - 33.2 dBu
Number of TEUT:	214060892	Polarity	: Normal	Frequency	: 881 Hz
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 3200.0 Ohm	Rx impedance	: 2r TBR21
Date	: 14.05.15	Requirement:	The voltage shall not exceed the limits	Call setup	: outgoing
Time	: 13:59.07	Data set	: AN10 3200 Ohm N		

Remark : U.29 9600bps

Mask violation: 0

Verdict : PASS

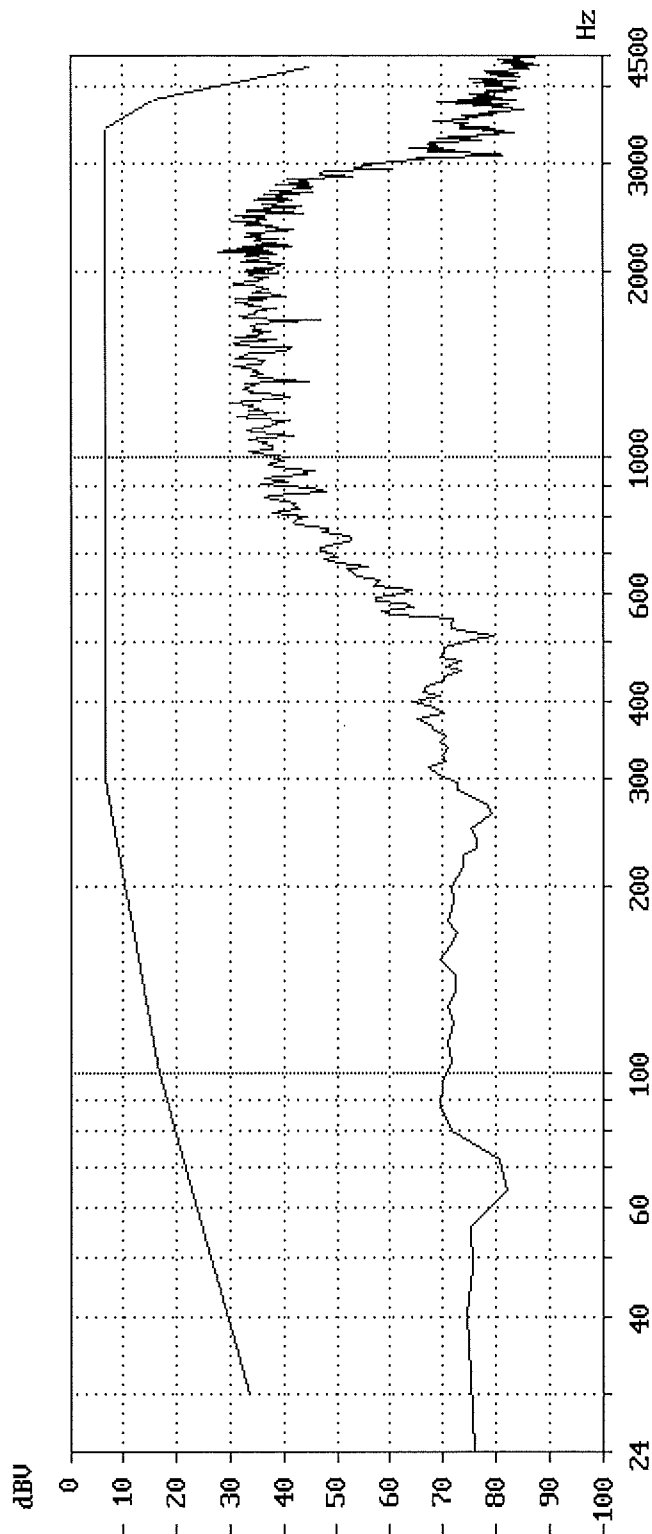


## AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Model No. : FAX System 10 Feeding voltage : 50.0 V Feeding bridge: TBR21  
 TEUT : Facsimile Kit for Modem Max. Level : - 27.7 dBV  
 Number of TEUT: 214060892 Polarity : Inverted Frequency : 2155 Hz  
 Manufacturer : KYOCERA DS Inc. Feeding resistor : 3200.0 Ohm Rx impedance : 2r TBR21  
 Date : 14.05.15 Requirement: The voltage Call setup : outgoing  
 Time : 14:09.40 shall not exceed the limits  
 Remark : V.27ter 4800bps Data set : AN10 3200 Ohm I

Mask violation: 0

Verdict : PASS



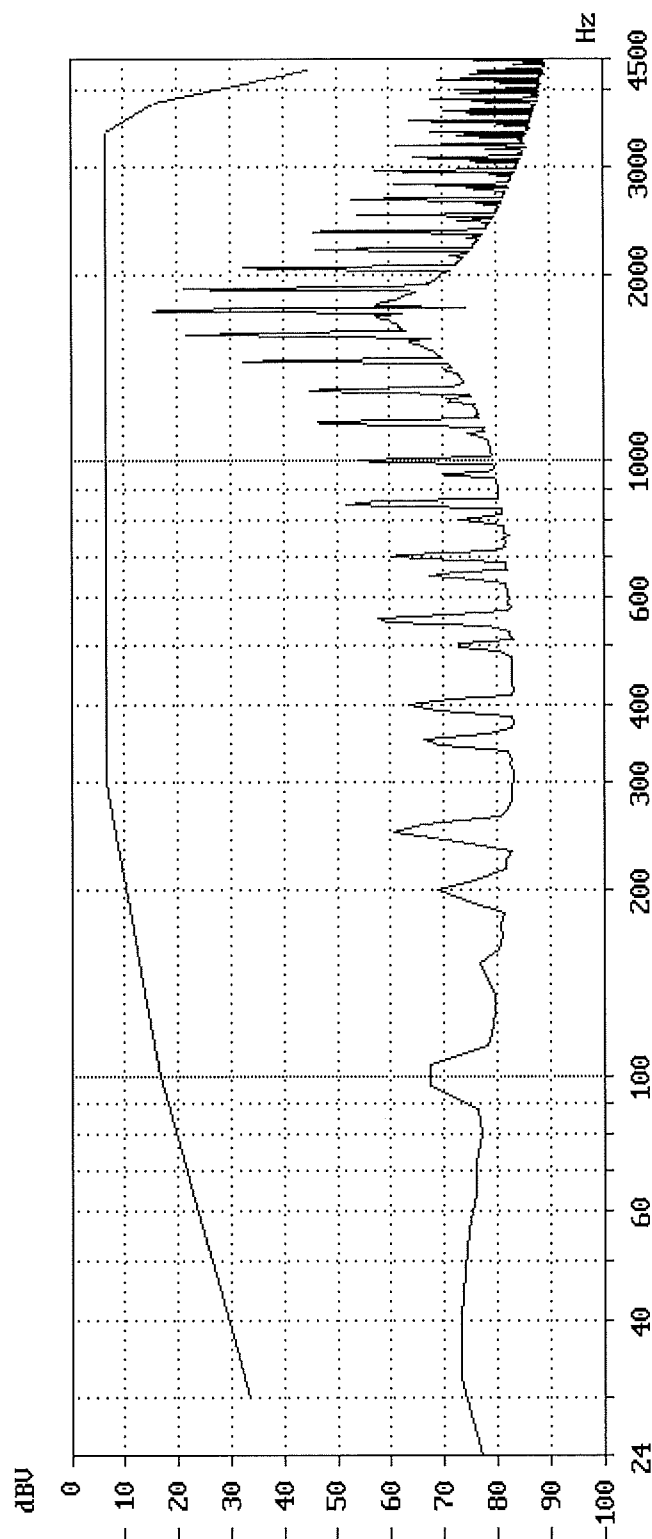
## AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Model No.	: FAX System 10	Feeding voltage	: 50.0 V	Feeding bridge:	TBR21
TEUT	: Facsimile Kit for M2000	Current limitation:	80.0 mA	Max. Level	: - 15.6 dBV
Number of TEUT:	214060892	Polarity	: Normal	Frequency	: 1747 Hz
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 230.0 Ohm	Rx impedance	: Zr TBR21
Date	: 14.05.15	Requirement:	The voltage shall not exceed the limits	Call setup	: outgoing
Time	: 14:19.40	Data set	: AN10 230 Ohm N		

Remark : U.21 300bps

Mask violation: 0

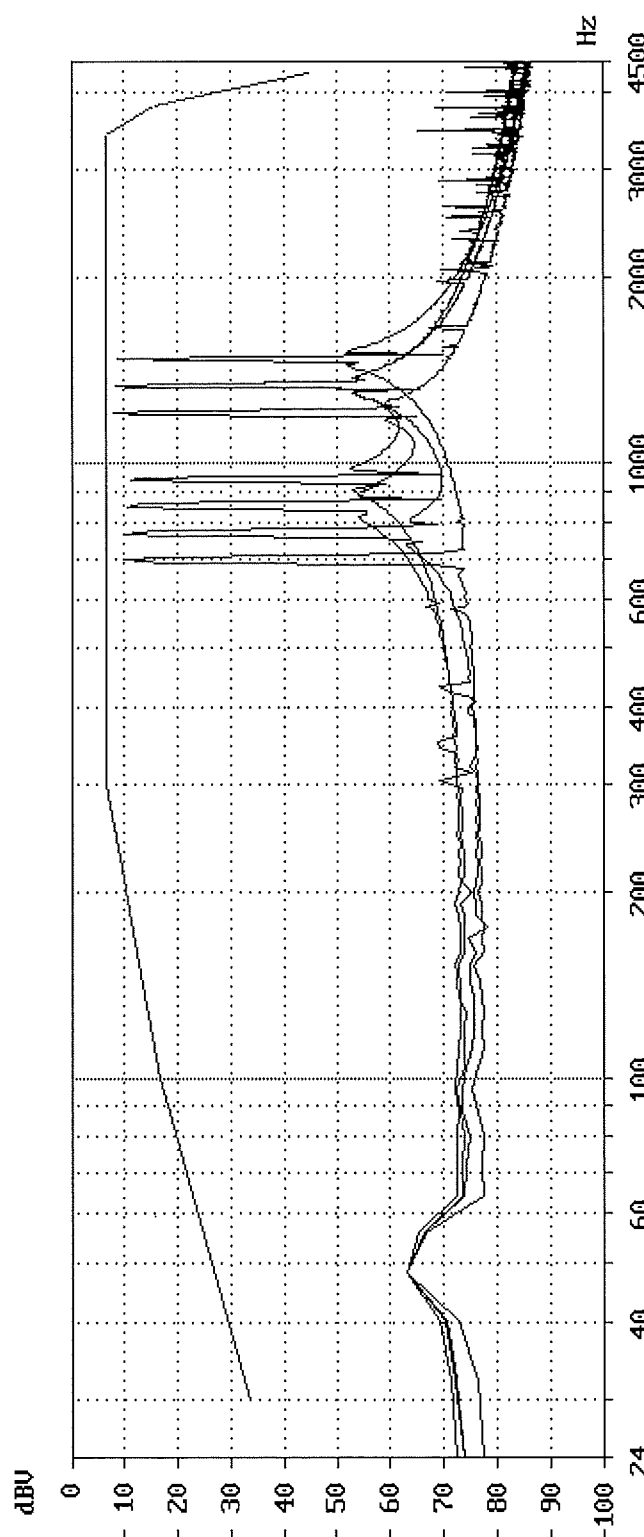
Verdict : PASS



# AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Comission : 214060892  
 Printing time : 18.05.15 18:41.02  
 Graph 1  
 Graph 2  
 Graph 3  
 Graph 4

Requirement: The voltage  
 shall not exceed the limits



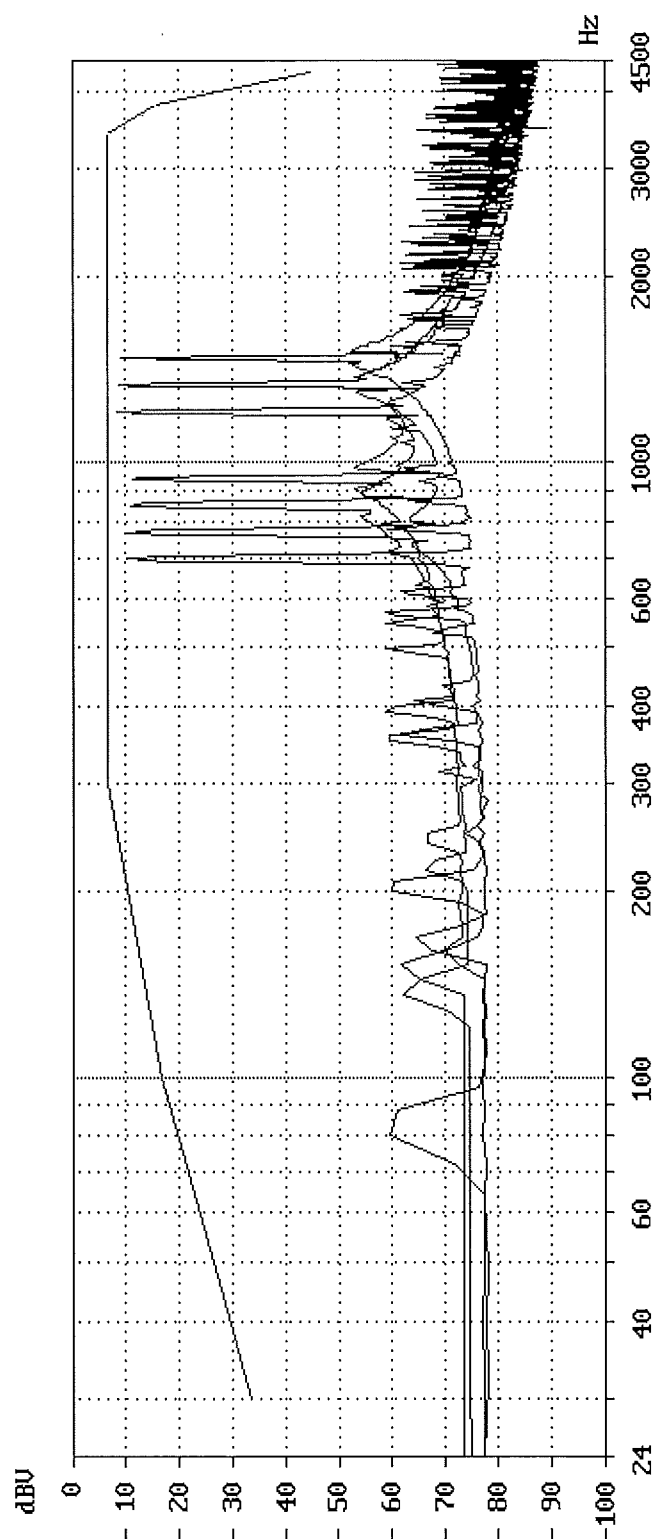


Maximum voltage in 10Hz bandwidth Comission : 214060892		Printing time : 18.05.15 18:41.02	
Graph 1		Graph 2	
Model No.	FAX System 10	FAX System 10	
TEUT	Facsimile Kit for MFP	Facsimile Kit for MFP	
Number of TEUT	214060892	214060892	
Manufacturer	KYOCERA DS Inc.	KYOCERA DS Inc.	
Date	18.05.15	18.05.15	
Time	18:39.28	18:39.43	
Mask violation	0	0	
Feeding voltage	50.0 V	50.0 V	
Current limitation	80.0 mA	80.0 mA	
Polarity	Normal	Normal	
Feeding resistor	230.0 Ohm	230.0 Ohm	
Data set	AN10 230 Ohm N	AN10 230 Ohm N	
Feeding bridge	TBR21	TBR21	
Max. Level	- 8.9 dBV	- 8.5 dBV	
Frequency	1474 Hz	1338 Hz	
Rx impedance	Zr TBR21	Zr TBR21	
Call setup	outgoing	outgoing	
Verdict	PASS	PASS	
Remark	DTMF 3	DTMF 5	
Graph 3		Graph 4	
Model No.	FAX System 10	FAX System 10	
TEUT	Facsimile Kit for MFP	Facsimile Kit for MFP	
Number of TEUT	214060892	214060892	
Manufacturer	KYOCERA DS Inc.	KYOCERA DS Inc.	
Date	18.05.15	18.05.15	
Time	18:39.57	18:40.11	
Mask violation	0	0	
Feeding voltage	50.0 V	50.0 V	
Current limitation	80.0 mA	80.0 mA	
Polarity	Normal	Normal	
Feeding resistor	230.0 Ohm	230.0 Ohm	
Data set	AN10 230 Ohm N	AN10 230 Ohm N	
Feeding bridge	TBR21	TBR21	
Max. Level	- 8.1 dBV	- 8.5 dBV	
Frequency	1210 Hz	1338 Hz	
Rx impedance	Zr TBR21	Zr TBR21	
Call setup	outgoing	outgoing	
Verdict	PASS	PASS	
Remark	DTMF 7	DTMF 0	

# AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Comission : 214060892  
 Printing time : 18.05.15 18:43.15  
 Graph 1  
 Graph 2  
 Graph 3  
 Graph 4

Requirement: The voltage  
 shall not exceed the limits



Maximum voltage in 10Hz bandwidth Comission : 214060892		Printing time : 18.05.15 18:43.15	
Graph 1		Graph 2	
Model No.	FAX System 10	FAX System 10	
TEUT	Facsimile Kit for MFP	Facsimile Kit for MFP	
Number of TEUT	214060892	214060892	
Manufacturer	KYOCERA DS Inc.	KYOCERA DS Inc.	
Date	18.05.15	18.05.15	
Time	18:41.43	18:41.59	
Mask violation	0	0	
Feeding voltage	50.0 V	50.0 V	
Current limitation	80.0 mA	80.0 mA	
Polarity	Inverted	Inverted	
Feeding resistor	3200.0 Ohm	3200.0 Ohm	
Data set	AN10 3200 Ohm I	AN10 3200 Ohm I	
Feeding bridge	TBR21	TBR21	
Max. Level	- 9.0 dBV	- 8.7 dBV	
Frequency	1474 Hz	1338 Hz	
Rx impedance	Zr TBR21	Zr TBR21	
Call setup	outgoing	outgoing	
Verdict	PASS	PASS	
Remark	DTMF 3	DTMF 5	
Graph 3		Graph 4	
Model No.	FAX System 10	FAX System 10	
TEUT	Facsimile Kit for MFP	Facsimile Kit for MFP	
Number of TEUT	214060892	214060892	
Manufacturer	KYOCERA DS Inc.	KYOCERA DS Inc.	
Date	18.05.15	18.05.15	
Time	18:42.13	18:42.25	
Mask violation	0	0	
Feeding voltage	50.0 V	50.0 V	
Current limitation	80.0 mA	80.0 mA	
Polarity	Inverted	Inverted	
Feeding resistor	3200.0 Ohm	3200.0 Ohm	
Data set	AN10 3200 Ohm I	AN10 3200 Ohm I	
Feeding bridge	TBR21	TBR21	
Max. Level	- 8.3 dBV	- 8.7 dBV	
Frequency	1210 Hz	1338 Hz	
Rx impedance	Zr TBR21	Zr TBR21	
Call setup	outgoing	outgoing	
Verdict	PASS	PASS	
Remark	DTMF 7	DTMF 0	

# Protocol for Automatic answering function Auto

Automatic answering function Auto  
EG 201 121/AN-11

Date	: 18.05.15	Feeding Voltage	: 50.0 V
Time	: 18:43.52	Dropping Resis. Rv	: 850.0 Ohm
Operator	: Y. Miura	Polarity	: Normal
Commission	: 214060892	Trigger threshold	: 10.0 mA
TEUT	: Facsimile Kit for MFP		
Manufacturer	: KYOCERA DS Inc.		
Parameter set	: AN-11 N		

Remark	: -	Requirement	[s] : ≤ 120.0
Verdict	: PASS		

Cycles	Frequency Hz	Ute V	1.Pulse ms	Pulse ms	Pause ms	Answering s
21	25.0	30.0	1000	1000	5000	7.07
21	50.0	30.0	1000	1000	5000	7.08

Protocol for Automatic answering function Auto

Automatic answering function Auto  
EG 201 121/AN-11

Date	: 18.05.15	Feeding Voltage	: 50.0 V
Time	: 18:45.49	Dropping Resis. Rv	: 850.0 Ohm
Operator	: Y. Miura	Polarity	: Inverted
Commission	: 214060892	Trigger threshold	: 10.0 mA
TEUT	: Facsimile Kit for MFP		
Manufacturer	: KYOCERA DS Inc.		
Parameter set	: AN-11 I		

Remark	: -	Requirement	[s] : ≤ 120.0
Verdict	: PASS		

Cycles	Frequency Hz	Ute V	1.Pulse ms	Pulse ms	Pause ms	Answering s
21	25.0	30.0	1000	1000	5000	7.09
21	50.0	30.0	1000	1000	5000	7.09

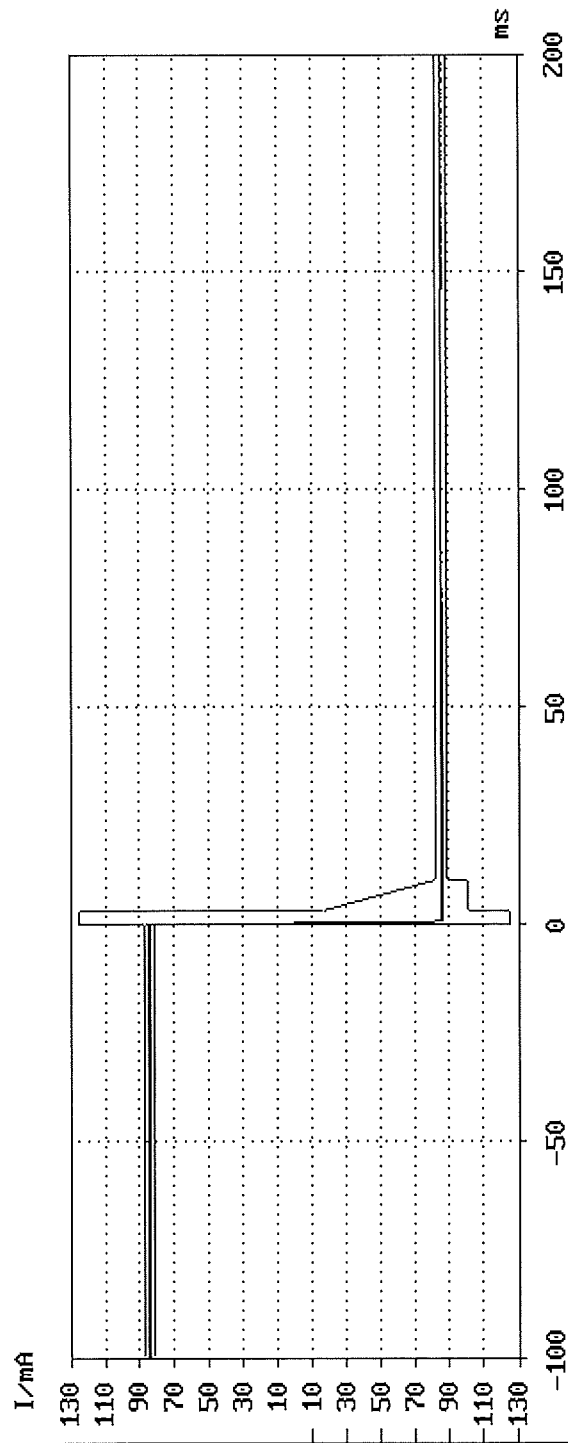
## AN 12 Immunity to polarity reversals

Model No.	: FAX System 10	Current limitation:	100.0 mA	I1 :	84.47 mA
TEUT	: Facsimile Kit for MFP	Feeding voltage :	50.0 V	I4 :	- 85.18 mA
Manufacturer	: KYOCERA DS Inc.	Drop resistor :	460.0 Ohm		
Number of TEUT	: 214060892	Polarity :	Normal		
Date	: 18.05.15	Measurement Time :	0.1 sec		
Time	: 18:50.21	Data set :	AN12 460 N		
		Requirement :	The current shall be within the limits.		

Remark : -

Mask violations : 0

Verdict : PASS

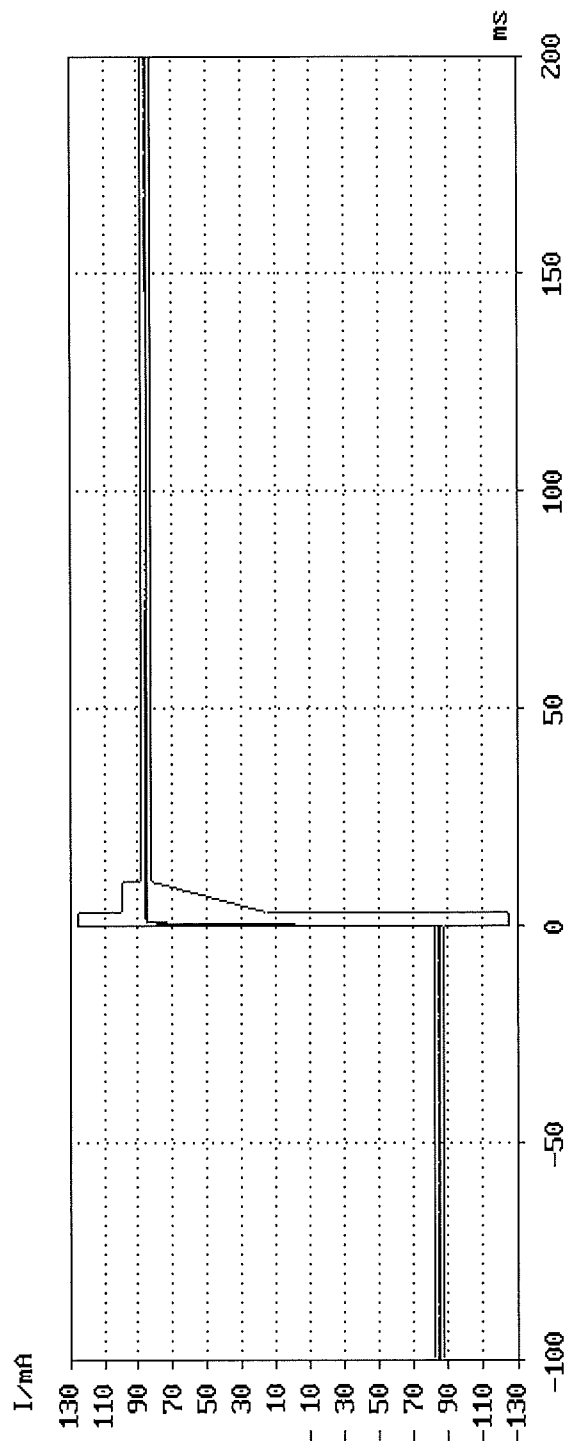


## AN 12 Immunity to polarity reversals

Model No.	: FAX System 10	Current limitation:	100.0 mA	I1 : - 84.51 mA
TEUT	: Facsimile Kit for MFP	Feeding voltage :	50.0 V	I4 : 85.23 mA
Manufacturer	: KYOCERA DS Inc.	Drop resistor :	460.0 Ohm	
Number of TEUT	: 214060892	Polarity :	Inverted	
Date	: 18.05.15	Measurement Time :	0.1 sec	
Time	: 18:51.39	Data set :	AN12 460 I	
Remark	: -	Requirement :	The current shall be within the limits.	

Mask violations : 0

Verdict : PASS



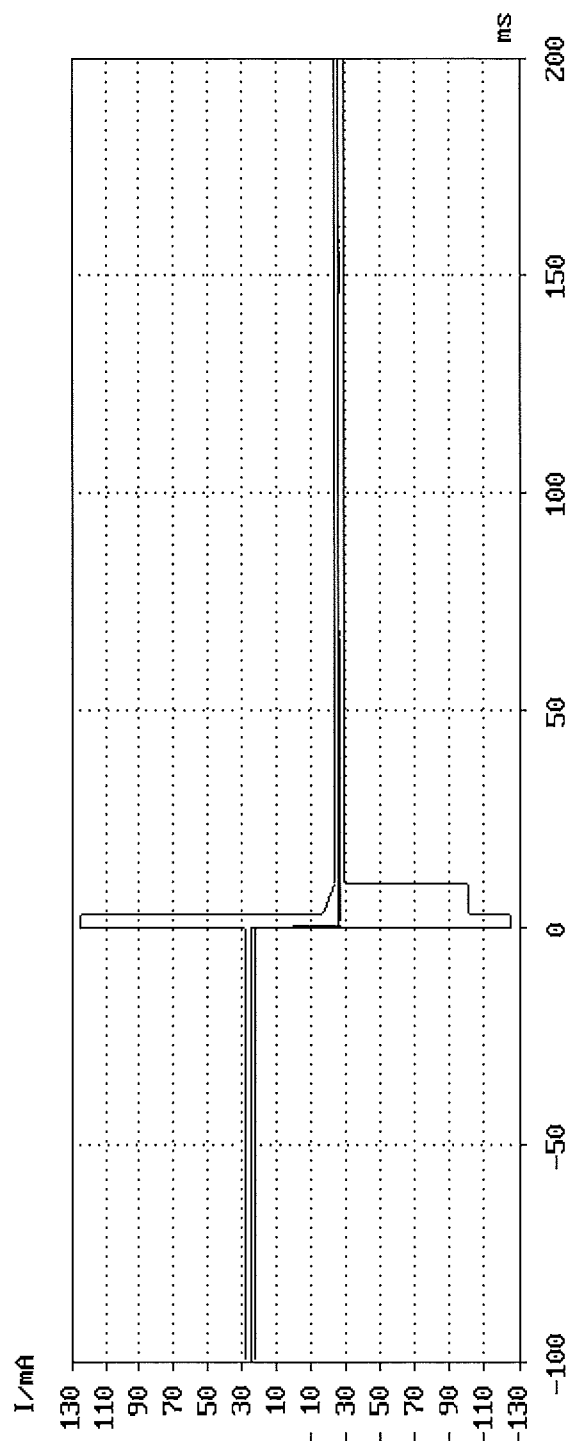
## AN 12 Immunity to polarity reversals

Model No.	: FAX System 10	Current limitation:	100.0 mA	I1 :	25.29 mA
TEUT	: Facsimile Kit for MFP	Feeding voltage	: 50.0 V	I4 :	- 25.39 mA
Manufacturer	: KYOCERA DS Inc.	Drop resistor	: 1700.0 Ohm		
Number of TEUT	: 214060892	Polarity	: Normal		
Date	: 18.05.15	Measurement Time	: 0.1 sec		
Time	: 18:53.00	Data set	: AN12 1700 N		
		Requirement	: The current shall be within the limits.		

Remark : -

Mask violations : 0

Verdict : PASS



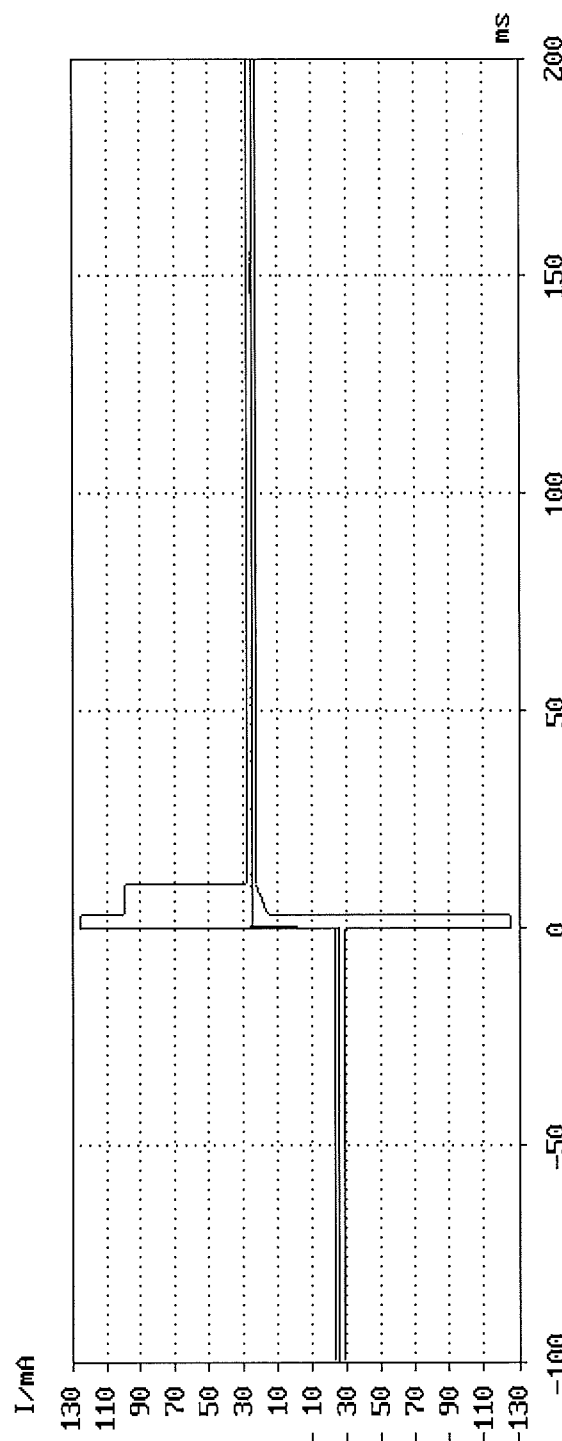


## AN 12 Immunity to polarity reversals

Model No.	: FAX System 10	Current limitation:	100.0 mA	I1 : - 25.29 mA
TEUT	: Facsimile Kit for MFP	Feeding voltage :	50.0 V	I4 : 25.38 mA
Manufacturer	: KYOCERA DS Inc.	Drop resistor :	1700.0 Ohm	
Number of TEUT	: 214060892	Polarity :	Inverted	
Date	: 18.05.15	Measurement Time :	0.1 sec	
Time	: 18:54.18	Data set :	AN12 1700 I	
Remark	: -	Requirement :	The current shall be within the limits.	

Mask violations : 0

Verdict : PASS



Protocol for Maximum mean sending level

DE03 GR03 NO01 Mean sending level in quiescent state

=====

Model No.	: FAX System 10	Feeding voltage	: 50 V
TEUT	: Facsimile Kit for MFP	Current limitation:	80 mA
Number of TEUT:	214060892	Polarity	: Inverted
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 230 $\Omega$
Date	: 18.05.15	Trigger lev./delay:	-50.0 dBV 10 msec
Time	: 18:56.35	Receiver impedance:	Zr TBR21
		Receiver filter	: BP 200-3800 Hz
		Call setup	: outgoing
		Gain (internal)	: -6.0 dB

Data set : DE03 GR03 NO01

Requirement : The mean sending level shall not be greater than -9.7 dBV

Remark : 0.12Vpp

Verdict : PASS

Mean level  
dBV

- 25.3

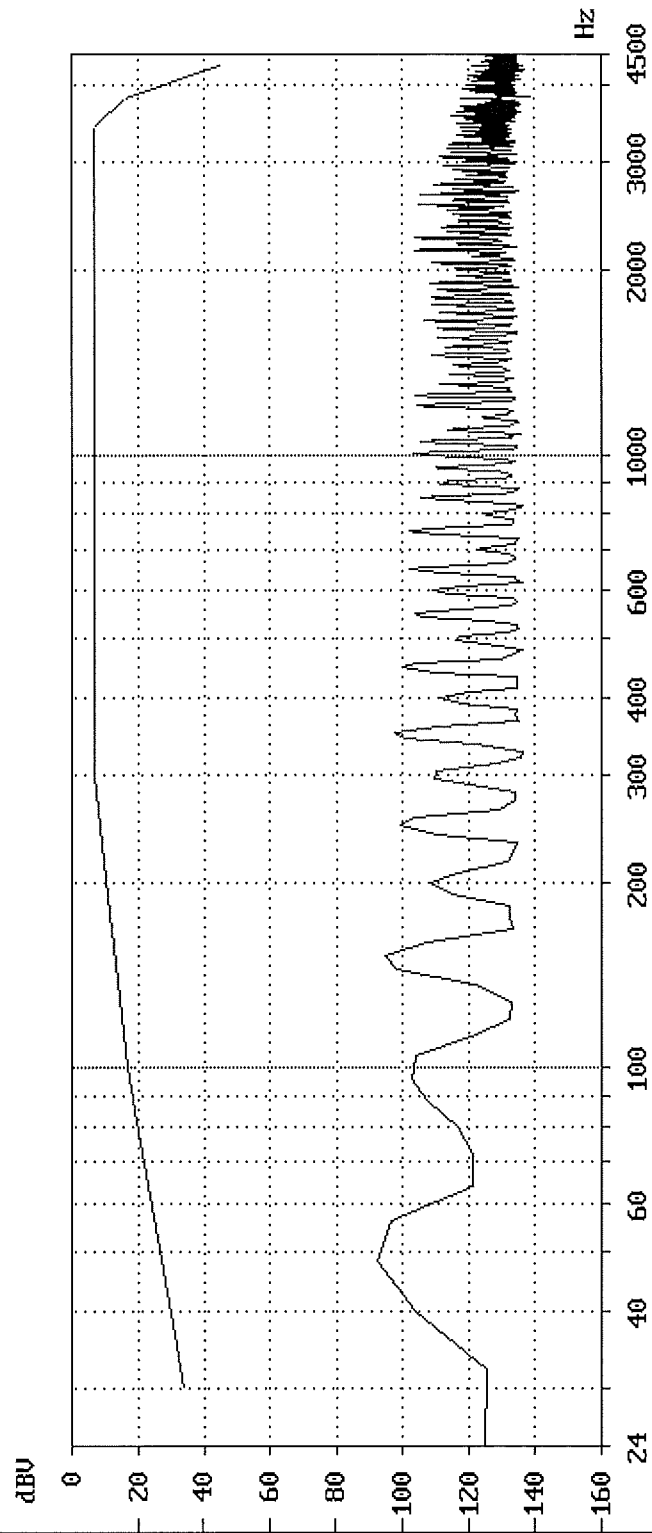
# DE03 GR03 ND01 Sending level in 10 Hz bandwidth in quiescent state

Model No. : FAX System 10 Feeding voltage : 50.0 V Feeding bridge: TBR21  
 TEUT : Facsimile Kit for Non-current limitation: 80.0 mA Max. Level : - 92.7 dBV  
 Number of TEUT: 214060892 Polarity : Inverted Frequency : 48 Hz  
 Manufacturer : KYOCERA DS Inc. Feeding resistor : 230.0 Ohm Rx impedance : Zr TBR21  
 Date : 18.05.15 Requirement: The voltage Call setup : outgoing  
 Time : 18:59.07 shall not exceed the limits  
 Data set : DE03 GR03 ND01

Remark : -

Mask violation: 0

Verdict : PASS



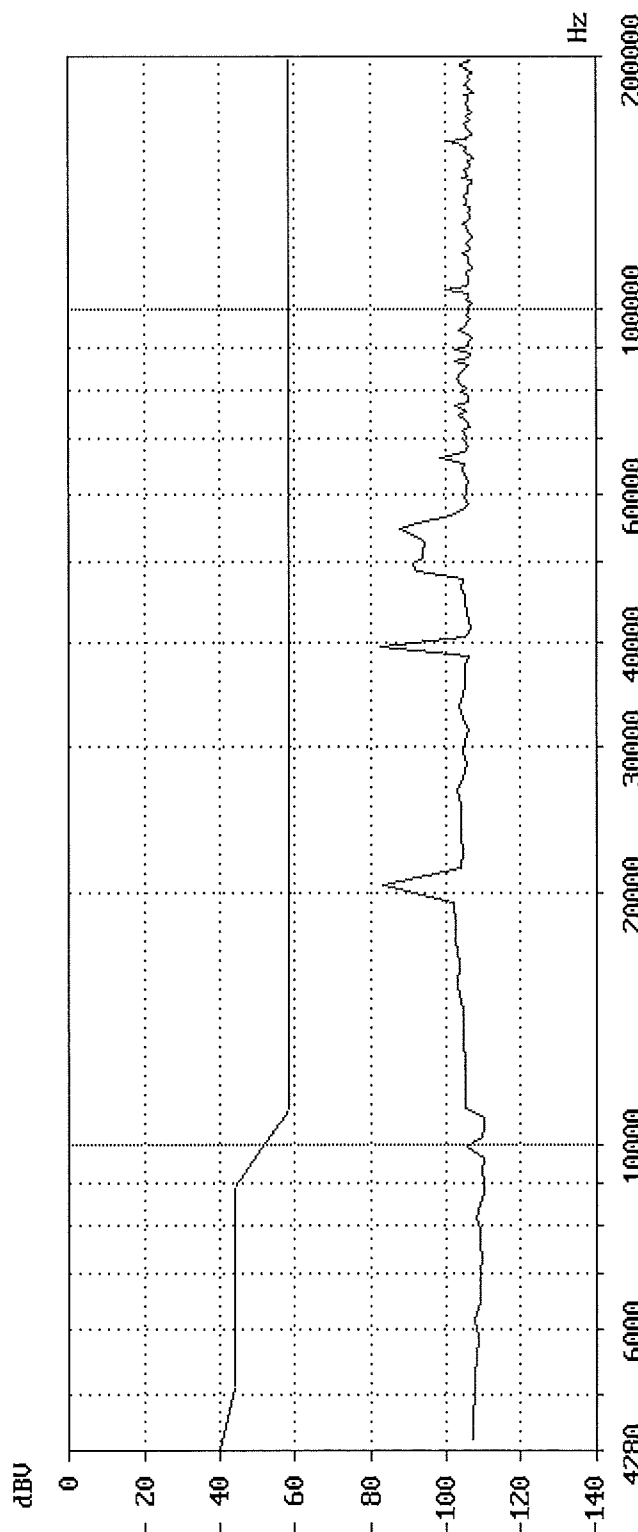
# DE03 GR03 ND01 Sending level above 4.3 kHz in quiescent state

Model No. : FAX System 10 Feeding voltage : 50.0 V Max. Level : - 82.3 dBV  
 TEUT : Facsimile Kit for Normal at Frequency: 40000 Hz  
 Number of TEUT: 214060892 Feeding Resistor: 230.0 Ohm Max. Level : - 82.8 dBV  
 Manufacturer : KYOCERA DS Inc. Feeding Bridge : TBR21 Frequency : 39519 Hz  
 Date : 18.05.15 Requirement : The voltage level Rx impedance: 2r TBR21  
 Time : 19:04.21 shall not exceed the limits  
 Data set : DE03 GR03 ND01

Remark : -

Mask violations: 0

Verdict : PASS



# Protocol for AC/DC Suszeptibility test quiescent condition

DE 04 GR 04 AC/DC Suszeptibility in quiescent state

Model No. : FAX System 10  
 TEUT : Facsimile Kit for MFP  
 Number of TEUT: 214060892  
 Manufacturer : KYOCERA DS Inc.  
 Date : 18.05.15  
 Time : 19:05.18

Data Set : DE04 GR04

Requirement : After this test the TE shall still fulfill all remaining requirements.

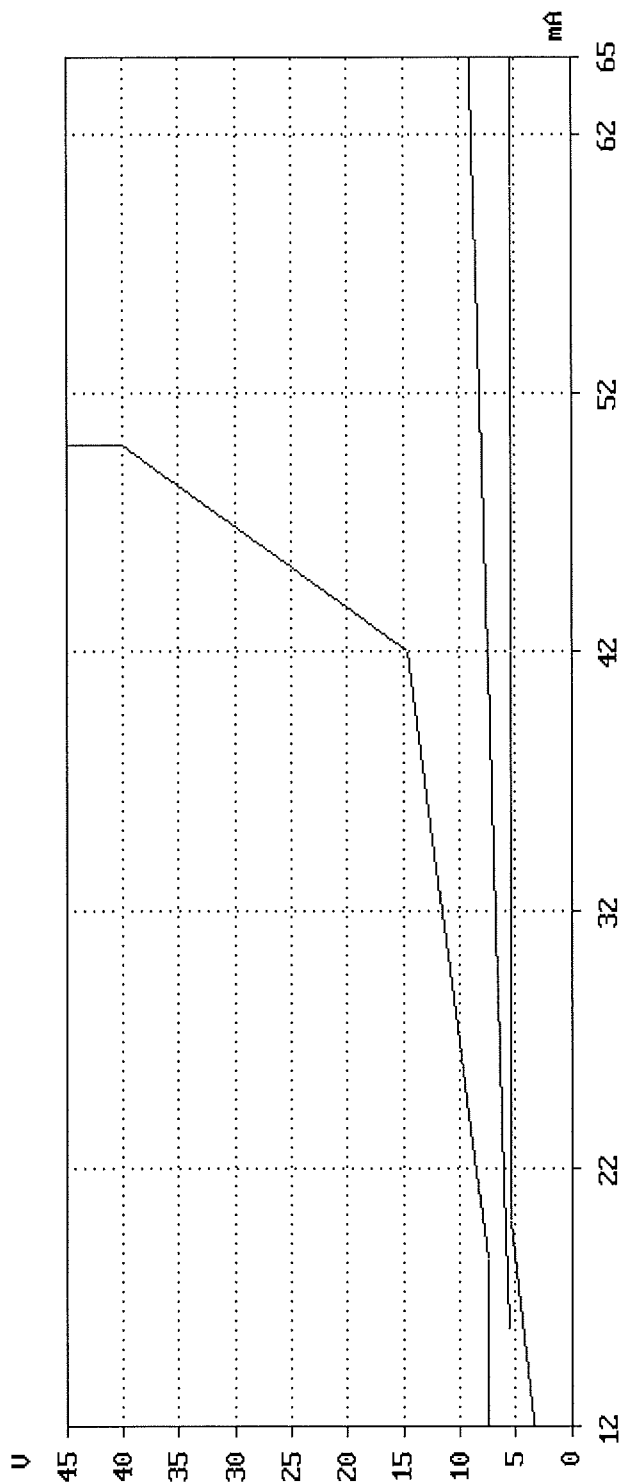
Remark : PASS

Udc [V]	Uac [V]	f [Hz]	R [Ohm]	Polarity	Duration [ms]	Pause [s]
63	75	25	140	Normal	6500	2
85	75	25	1340	Inverted	6500	2
63	75	25	140	Normal	6500	2
85	75	25	1340	Inverted	6500	2

# DE08 ND02 ES01 Lower limit of voltage in DC characteristics

Model No. : FAX System 10 Feeding voltage : 50.0 V  
 TEUT : Facsimile Kit for Feeding : 230/850/2050/3200 Ohm  
 Number of TEUT: 214060892 Polarity : normal  
 Manufacturer : KYOCERA DS Inc. Requirement: The DC characteristic  
 Date : 18.05.15 shall not exceed the limits  
 Time : 19:10.54 Data set : DE08 ES01 ND02 60mA 2800N  
 Remark : -

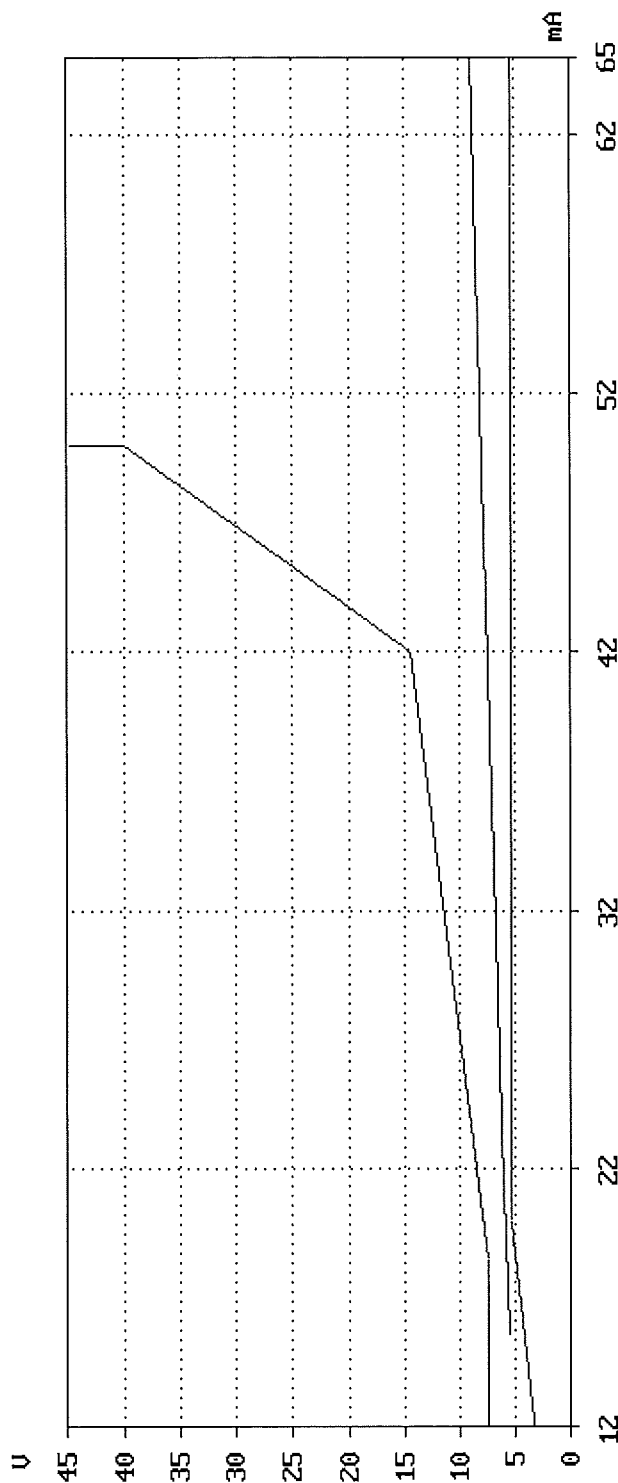
Mask violations: 0 Verdict : PASS



## DE08 N002 ES01 Lower limit of voltage in DC characteristics

Model No. : FAX System 10 Feeding voltage : 50.0 V  
 TEUT : Facsimile Kit for Feeding : 230/850/2050/3200 Ohm  
 Number of TEUT: 214060892 Polarity : inverted  
 Manufacturer : KYOCERA DS Inc. Requirement: The DC characteristic  
 Date : 18.05.15 shall not exceed the limits  
 Time : 19:14.52 Data set : DE08 ES01 N002 60mA 2800I  
 Remark : -

Mask violations: 0 Verdict : PASS



# Protocol for DTMF Impedance

DTMF Impedance  
EG 201 121, DE-09

Date	: 18.05.15	Feeding bridge	: TBR21
Time	: 19:15.45	Feeding Voltage	: 50.0 V
Operator	: Y. Miura	Feeding resistor	: 230.0 Ohm
Test Job	: 214060892	Polarity	: Normal
TEUT	: Facsimile Kit for MFP	Triggerlevel/delay	: -20.0 dBV 10 msec
Manufacturer:	KYOCERA DS Inc.	Bridge Impedance Zn:	Zr TBR21
		Audible tone	: DialTone

Remark : -  
Verdict : PASS

Digit	Frequency [Hz]	Loss [dB]
3	504	53.3
3	889	43.3
3	1201	38.2
3	1706	36.1
5	576	43.1
5	1009	39.5
5	1105	44.9
5	1538	40.6
5	1706	36.1
7	600	33.5
7	1418	44.0
7	1706	36.1



# Protocol for DTMF Impedance

DTMF Impedance  
EG 201 121, DE-09

Date	: 18.05.15	Feeding bridge	: TBR21
Time	: 19:18.28	Feeding Voltage	: 50.0 V
Operator	: Y. Miura	Feeding resistor	: 850.0 Ohm
Test Job	: 214060892	Polarity	: Inverted
TEUT	: Facsimile Kit for MFP	Triggerlevel/delay	: -20.0 dBV 10 msec
Manufacturer:	KYOCERA DS Inc.	Bridge Impedance Zn:	Zr TBR21
		Audible tone	: DialTone

Remark : -  
Verdict : PASS

Digit	Frequency [Hz]	Loss [dB]
3	504	49.0
3	889	38.5
3	1201	28.8
3	1706	25.7
5	576	49.1
5	1009	40.7
5	1105	45.4
5	1538	40.3
5	1706	37.1
7	600	38.6
7	1418	42.7
7	1706	37.5

# Protocol for DTMF Impedance

DTMF Impedance  
EG 201 121, DE-09

Date	: 18.05.15	Feeding bridge	: TBR21
Time	: 19:21.02	Feeding Voltage	: 50.0 V
Operator	: Y. Miura	Feeding resistor	: 2050.0 Ohm
Test Job	: 214060892	Polarity	: Normal
TEUT	: Facsimile Kit for MFP	Triggerlevel/delay	: -20.0 dBV 10 msec
Manufacturer:	KYOCERA DS Inc.	Bridge Impedance Zn:	Zr TBR21
		Audible tone	: DialTone

Remark : -  
Verdict : PASS

Digit	Frequency [Hz]	Loss [dB]
3	504	42.8
3	889	39.3
3	1201	30.9
3	1706	24.6
5	576	42.4
5	1009	26.6
5	1105	23.9
5	1538	29.9
5	1706	39.3
7	600	36.0
7	1418	28.2
7	1706	34.5

# Protocol for DTMF Impedance

DTMF Impedance  
EG 201 121, DE-09

Date	: 18.05.15	Feeding bridge	: TBR21
Time	: 19:23.20	Feeding Voltage	: 50.0 V
Operator	: Y. Miura	Feeding resistor	: 3200.0 Ohm
Test Job	: 214060892	Polarity	: Inverted
TEUT	: Facsimile Kit for MFP	Triggerlevel/delay	: -20.0 dBV 10 msec
Manufacturer:	KYOCERA DS Inc.	Bridge Impedance Zn:	Zr TBR21
Remark	: -	Audible tone	: DialTone
Verdict	: PASS		

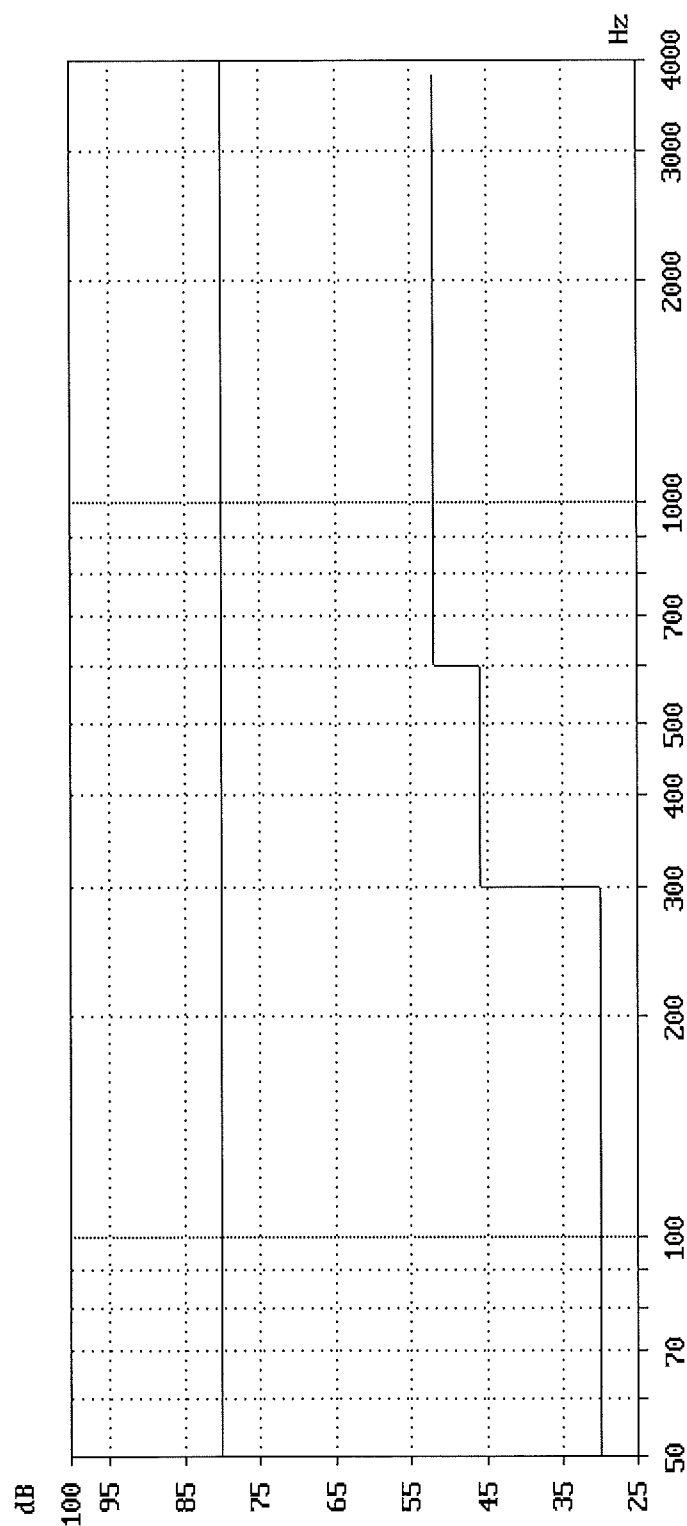
Digit	Frequency [Hz]	Loss [dB]
3	504	44.3
3	889	44.5
3	1201	30.3
3	1706	25.4
5	576	40.4
5	1009	26.5
5	1105	24.0
5	1538	29.8
5	1706	37.4
7	600	33.9
7	1418	27.4
7	1706	34.2

## DE12 Output signal balance for better DTMF signalling

Model No. : FAX System 10	Feeding voltage : 50.0 V	Feeding Bridge: TBR21
TEUT : Facsimile Kit for MMT	Current limitation: 80.0 mA	Mask violation: 0
Number of TEUT: 214060892	Polarity : Normal	Min. level U <sub>0</sub> : -70.0 dBV
Manufacturer : KYOCERA DS Inc.	Feeding resistor : 230.0 Ohm	Call setup : outgoing
Date : 18.05.15	Requirement : The curve of results shall be greater than the limits	
Time : 19:26.29	Data set : DE12 230 N	

Remark : DTMF 3

Verdict : PASS

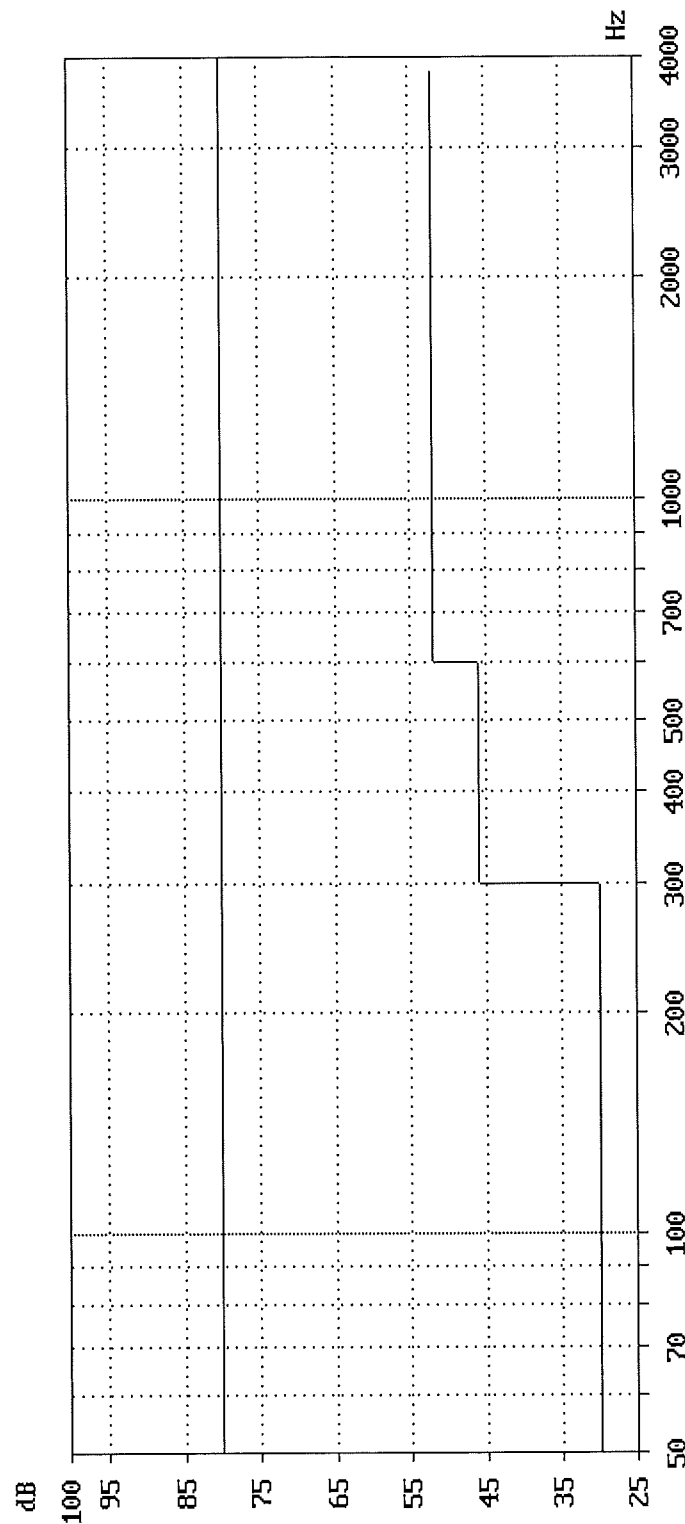


## DE12 Output signal balance for better DTMF signalling

Model No. : FAX System 10	Feeding voltage : 50.0 V	Feeding Bridge: TBR21
TEUT : Facsimile Kit for M&T	Current limitation: 80.0 mA	Mask violation: 0
Number of TEUT: 214060892	Polarity : Inverted	Min. level U <sub>0</sub> : -70.0 dBV
Manufacturer : KYOCERA DS Inc.	Feeding resistor : 850.0 Ohm	Call setup : outgoing
Date : 18.05.15	Requirement : The curve of results shall be greater than the limits	
Time : 19:27.40	Data set : DE12 850 I	

Remark : DTMF 3

Verdict : PASS

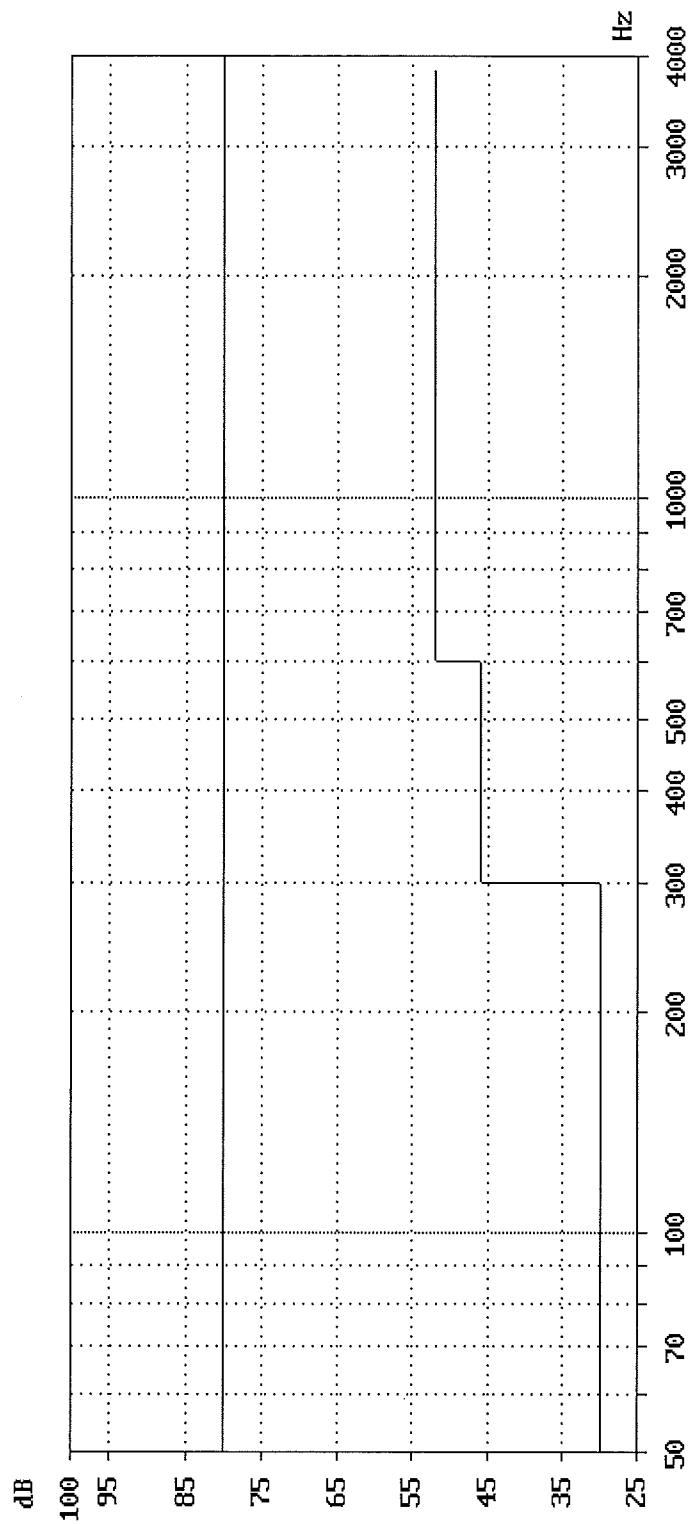


## DE12 Output signal balance for better DTMF signalling

Model No. : FAX System 10	Feeding voltage : 50.0 V	Feeding Bridge: TBR21
TEUT : Facsimile Kit for DE12	Mask violation: 80.0 mA	Mask violation: 0
Number of TEUT: 214060892	Polarity : Normal	Min. level Uo : -70.0 dBV
Manufacturer : KYOCERA DS Inc.	Feeding resistor : 2050.0 Ohm	Call setup : outgoing
Date : 18.05.15	Requirement : The curve of results shall be greater than the limits	
Time : 19:29.04	Data set : DE12 2050 N	

Remark : DTMF 3

Verdict : PASS

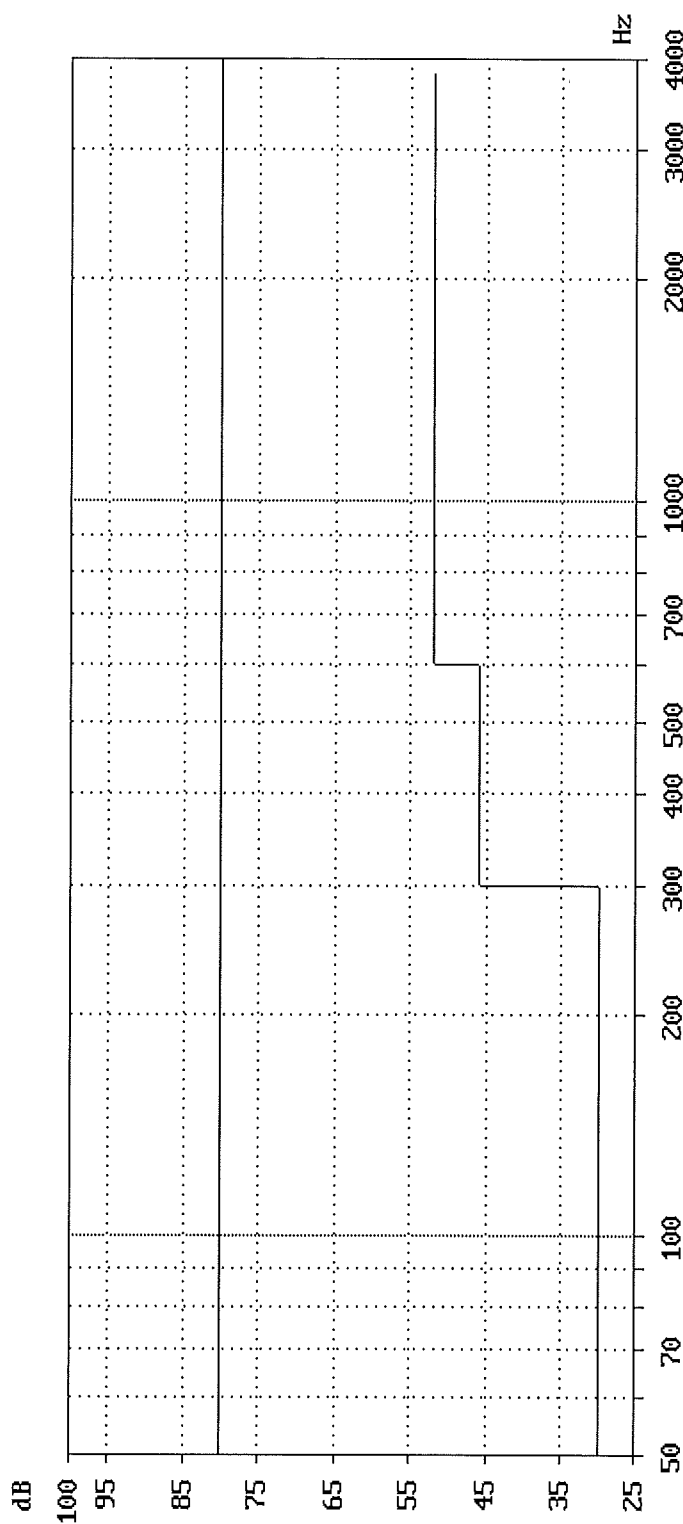


## DE12 Output signal balance for better DTMF signalling

Model No. : FAX System 10	Feeding voltage : 50.0 V	Feeding Bridge: TBR21
TEUT : Facsimile Kit for NIPPON	Mask violation: 0	
Number of TEUT: 214060892	Polarity : Inverted	Min. level Uo : -70.0 dBV
Manufacturer : KYOCERA DS Inc.	Feeding resistor : 3200.0 Ohm	Call setup : outgoing
Date : 18.05.15	Requirement : The curve of results shall be greater than the limits	
Time : 19:30.21	Data set : DE12 3200 I	

Remark : DTMF 3

Verdict : PASS

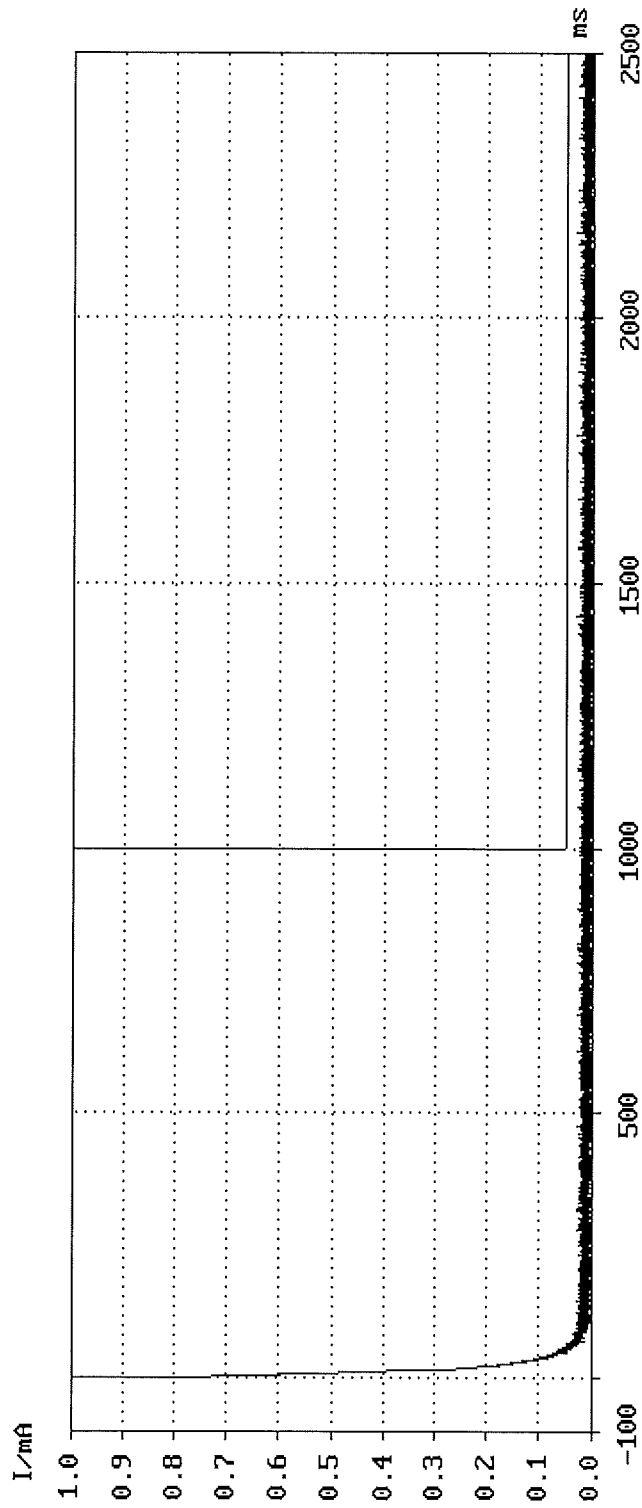


## DE14 Improvement for transition from loop to quiescent

Model No. : FAX System 10 Feeding voltage : 50.0 V Trigger : OK  
 TEUT : Facsimile Kit for FAX : Normal I [mA]: 10.0  
 Number of TEUT: 214060892 Drop resistor : 2050.0 Ohm Event : 1. neg. Edge  
 Manufacturer : KYOCERA DS Inc. Delay [ms]: - 100  
 Date : 18.05.15 Requirement : The current shall Sample [ms]: 0.2  
 Time : 19:31.42 drop not later than 1s  
 Remark : - Data set : DE14

Verdict : PASS

Transient times : 0.0 ms



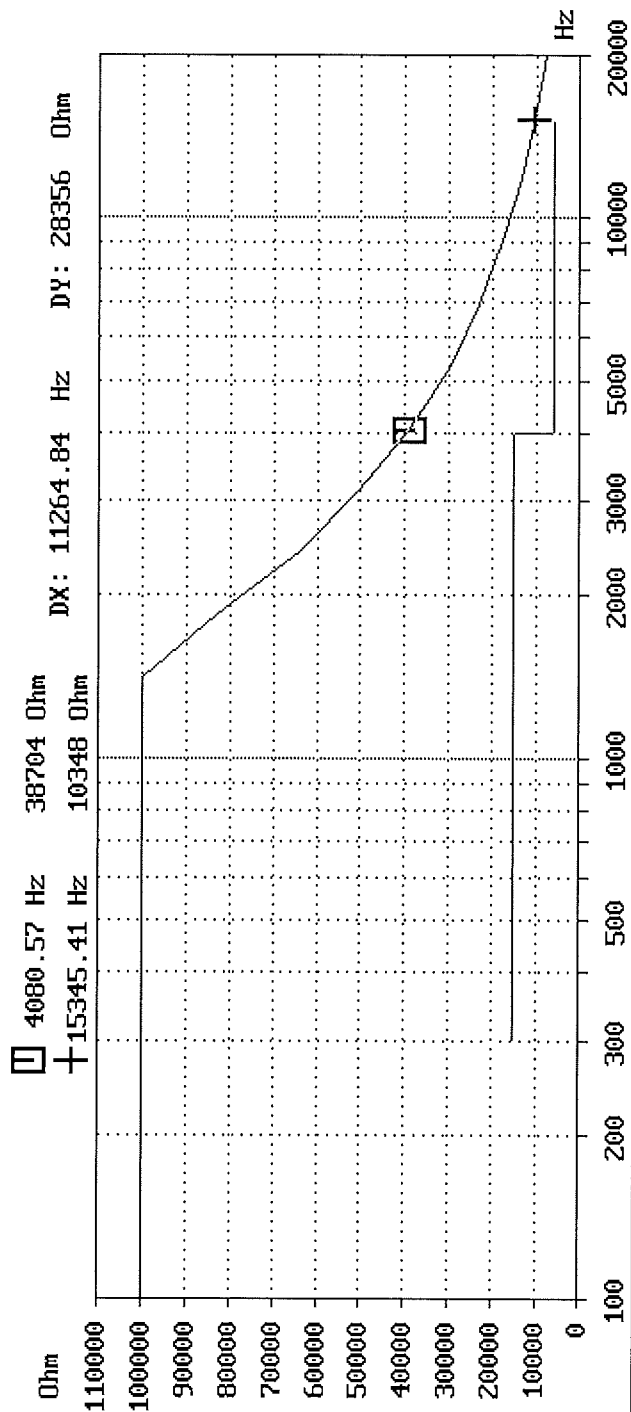


# Modulus of impedance Z(f)

EG 201 121/P-03

Test Job	: 214060892	Current Limitation	: 100.0 mA
TEUT	: Facsimile Kit for MFP	Feeding Voltage	: 50.0 V
Manufacturer	: KYOCERA DS Inc.	Dropping Resistor	: 2050.0 Ohm
Operator	: Y. Miura	Polarity	: Normal
Date	: 18.05.15		
Time	: 19:34.59	Level	: +3.5 dBV

Remark : -  
Mask violations : 0  
Verdict : PASS

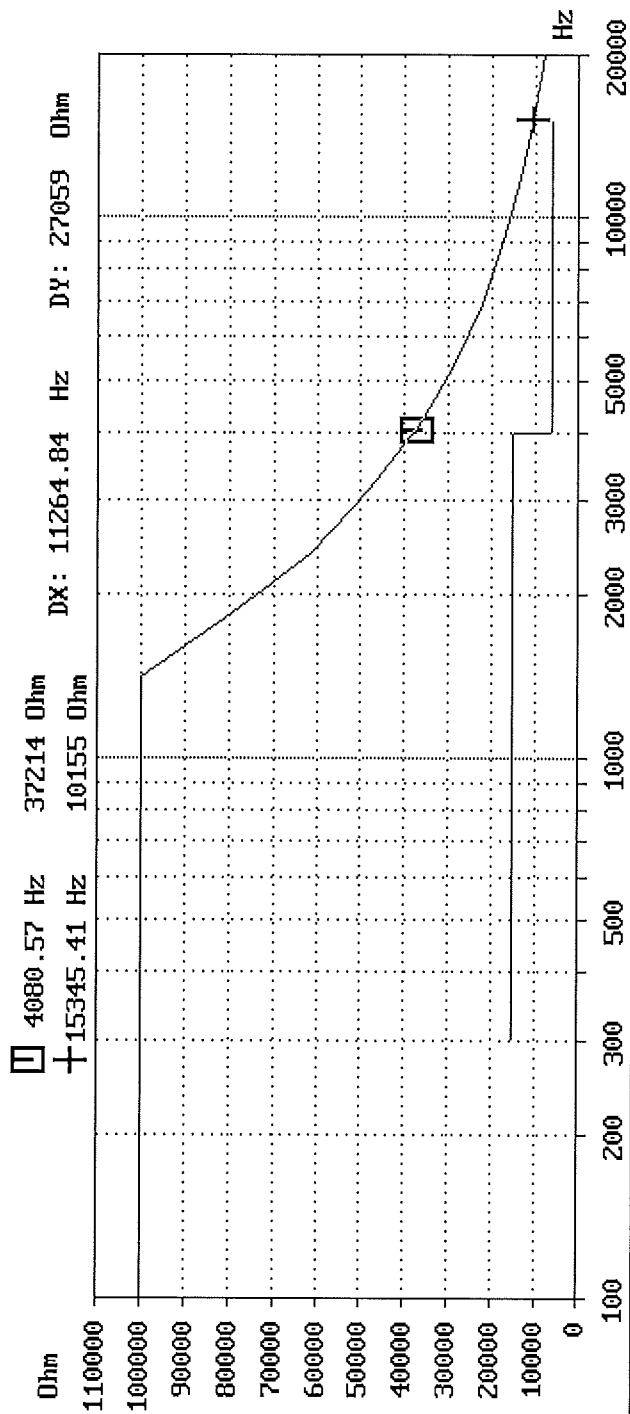


# Modulus of impedance Z(f)

EG 201 121/P-03

Test Job	: 214060892	Current Limitation	: 100.0 mA
TEUT	: Facsimile Kit for MFP	Feeding Voltage	: 50.0 V
Manufacturer	: KYOCERA DS Inc.	Dropping Resistor	: 2050.0 Ohm
Operator	: Y. Miura	Polarity	: Inverted
Date	: 18.05.15		
Time	: 19:37.05	Level	: +3.5 dBV

Remark	: -
Mask violations	: 0
Verdict	: PASS



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**Prüfbericht - Nr.:**  
*Test Report No.:*

50027980 002

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**Anlage B**  
Appendix B

**Produktbeschreibung**  
Description of Equipment

Refer to test report 50027980 001.

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**Prüfbericht - Nr.:**  
*Test Report No.:*

50027980 002

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**Anlage C**  
Appendix C

**Schaltpläne**  
Circuit diagrams

Refer to test report 50027980 001.

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**Prüfbericht - Nr.:**  
*Test Report No.:*

50027980 002

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**Anlage D**  
Appendix D

**Fotos**  
Photographs

Refer to test report 50027980 001.