
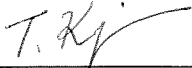



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<i>Test Report No.:</i>																									
Auftraggeber: <i>Client:</i>		KYOCERA Document Solutions Inc. 1-2-28 Tamatsukuri, Chuo-ku ,Osaka-shi,Osaka,540-8585 Japan																							
Gegenstand der Prüfung: Multi Function Printer <i>Test item:</i>																									
Bezeichnung: <i>Identification:</i>		ECOSYS M6535cidn		Serien-Nr.: <i>Serial No.:</i>																					
Wareneingangs-Nr.: <i>Receipt No.:</i>		A000115322-001		Eingangsdatum: 2014-10-06 <i>Date of receipt:</i>																					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>				Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>																					
Prüfort: <i>Testing location:</i>		TÜV Rheinland Japan Ltd. 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																							
Prüfgrundlage: <i>Test specification:</i>		EG 201 121 V1.1.3 (2000 - 02)																							
Prüfergebnis: <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>																							
Prüflaboratorium: <i>Testing Laboratory:</i>		TÜV Rheinland Japan Ltd. 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																							
geprüft/ tested by:			kontrolliert/ reviewed by:																						
2014-11-05, Y.Miura  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Datum</th> <th style="text-align: left;">Name/Stellung</th> <th style="text-align: left;">Unterschrift</th> </tr> <tr> <th style="text-align: left;"><i>Date</i></th> <th style="text-align: left;"><i>Name/Position</i></th> <th style="text-align: left;"><i>Signature</i></th> </tr> </table>			Datum	Name/Stellung	Unterschrift	<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>	2014-11-05, T.Kuriyama  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Datum</th> <th style="text-align: left;">Name/Stellung</th> <th style="text-align: left;">Unterschrift</th> </tr> <tr> <th style="text-align: left;"><i>Date</i></th> <th style="text-align: left;"><i>Name/Position</i></th> <th style="text-align: left;"><i>Signature</i></th> </tr> </table>			Datum	Name/Stellung	Unterschrift	<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>								
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<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>																							
Sonstiges/ Other Aspects: DE08/NO02/ES01 are applied without 60mA current limit. AN003, AN004, AN013, AN014, AN015, AN017, DE17, GR02/P10 and P04 are not applied. Accredited Testing Laboratory under the terms of ISO 17025 D-PL-12059-01-03 <div style="text-align: center; margin-top: 20px;">  <p>DAkkS Deutsche Akkreditierungsstelle</p> </div>																									
<table style="width: 100%; font-size: small;"> <tr> <td>* Legende: 1 = sehr gut</td> <td>2 = gut</td> <td>3 = befriedigend</td> <td>4 = ausreichend</td> <td>5 = mangelhaft</td> </tr> <tr> <td>P(ass) = entspricht o.g. Prüfgrundlage(n)</td> <td>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</td> <td>N/A = nicht anwendbar</td> <td>N/T = nicht getestet</td> <td></td> </tr> <tr> <td>Legend: 1 = very good</td> <td>2 = good</td> <td>3 = satisfactory</td> <td>4 = sufficient</td> <td>5 = poor</td> </tr> <tr> <td>P(ass) = passed a.m. test specification(s)</td> <td>F(ail) = failed a.m. test specification(s)</td> <td>N/A = not applicable</td> <td>N/T = not tested</td> <td></td> </tr> </table>						* 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	
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<p>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.</p> <p><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></p>																									

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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.

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Climatic conditions during testing

Temperature: 23 - 25 °C

Air pressure: 1020 - 1020 hPa

Humidity: 45 - 55 %

Appliance documentation

Hardware: -

Software: -

User manual: ECOSYS M6535cidn Specifications

Circuit diagram: FAX SUB PCB(1/1)

Test system configuration

Hardware: ECOSYS M6535cidn

Software: 004.001

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 Date
ESP Automatic Measurement System AMS	TL-9000	2014-01-21
ESP Outband Receiver and Ringer Amplifier ARE1000	TL-9001	2014-01-21
ESP International Feeding Bridge ISB1000	TL-9002	2014-01-21
Fluke Digital True RMS Multimeter	TL-9122	2014-10-14
Tektronix Oscilloscope TDS210	TL-9008	2014-05-22
Tektronix/ Voltage Probe I / II	TL-9036, TL-9037	2014-05-22
TRJ Connector Box	TL-9010	2014-02-28
TRJ Resistor Box	TL-9011	2014-02-28
ESP Reference Impedance Zref-quer TBR21, Type28	TL-9020, TL-9021	2014-02-28
ESP Reference Impedance Zref-längs TBR21, Type 29	TL-9022	2014-02-28
ESP Reference Impedance 150 Ohm crosswise, Type 50	TL-9033	2014-01-15
ESP Polarity Switch	TL-9042	2014-02-28

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	: ±8.2µs
		DC Current (10mA)	: ±0.12 mA
		DC Current (0.5mA)	: ±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:±2.1dB	
		200Hz-4.3kHz:Level:±1.6dB	
AN 11	Establishment of loop for automatic answer	Time	: ±1.2 ms
		Voltage	: ±0.26 V
AN 12	Transition after change to opposite polarity	Time	: ±59 ms
		Current	: ±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	: ±12 ms
		Voltage (63V)	: ±0.36 V
		Voltage (85V)	: ±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:±0.06V	
		Current:±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:±8.2µs	
		Current(10mA):±0.12mA	
		Current(0.5mA):	
		±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 (10mA)	: ±0.2 mA
		Resistance	: ±1.0Ω
P 04	Insertion loss at series connection	Insertion loss	: ±0.095 dB
ES 01/NO 02	DC current and loop resistance	"Voltage:±0.06V	
		Current:±0.82mA"	

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Summary Report: EG 201 121

All Countries					
Requirements				N/A N/T fail OK	Appendix A
ATAAB AN 002, ATAAB AN 003 Ringing signal detector sensitivity: 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
Dial tone detection				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-
Frequency	Level	Timing	Start dialling after		
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"/>	
ATAAB AN 004 DTMF signalling: 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"/>	-

ATAAB AN 013					
Voice stimulated TE					
Requirements				N/A N/T fail OK	Appendix A
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
ATAAB AN 014 Reduction of the range of line currents: 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"/>	-
ATAAB AN 015 Alternative connection methods: 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"/>	-
ATAAB AN 016 Test for compliance of resistance to earth (On-Hook): 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 50016223 001. <input type="checkbox"/> with relaxation of this Advisory Note.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	-
ATAAB AN 016 Test for compliance of resistance to earth (Off-Hook): 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 50016223 001. <input type="checkbox"/> with relaxation of this Advisory Note.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	-
ATAAB AN 017 Test impedance for compliance above 4.3 kHz: 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
ATAAB AN 005 Automatic clearing of automatically originated or answered PSTN calls: Limit: $t < 180\text{s}$ Measurement Result: $t = 55.1\text{ s}$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6
ATAAB AN 006 Resistance to earth: Limit: $U = 150\text{ V DC} \Rightarrow R > 100\text{ k}\Omega$ Measurement Result: $R > 49530\text{ k}\Omega$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	7
ATAAB AN 007 Liberation of Loop condition by the TE in the event of power failure: Limit: In quiescent state within: $t < 30\text{ s}$ Measurement Result: $t < 1.72\text{ s}$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	8-9
ATAAB AN 009 Instantaneous Voltage in a frequency range from 5 Hz to 4300 Hz: Limit: $U_{pp} < 5.0\text{ V}$ Measurement Result: $U_{pp} < 1.22\text{ V}$ Refer also to test report 50016223 001.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	10-16
ATAAB AN 010 Sending level in 10 Hz bandwidth: 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
DE03 Control of sending level in quiescent state:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32-34
DE04 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
DE05 Restriction on seizing the line without the intent of making a call: 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"/>	-
DE08 DC Characteristics: 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
DE09 Impedance during DTMF signalling: 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
DE12 Output signal balance: Limits see figure: 'DE 12.1'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	42-45
DE14 Transition from loop to quiescent: 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
DE17 Definition of the feeding bridge: 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
ATAAB AN 005 Automatic clearing of automatically originated or answered PSTN calls: Limit: $t < 360s$, for different clearing conditions, see table: 'AN 05.1' Measurement Result: $t = 55.4 s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5
ATAAB AN 006 Resistance to earth: Limit: $U = 150 V DC \Rightarrow R > 100 k\Omega$ Measurement Result: $R > 49530 k\Omega$	<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
GR01 Restriction on seizing the line without the intent of making a call: 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"/>	-

GR02 Loop disconnect signalling		
Requirements according ETS 300 001	N/A N/T fail OK	Appendix A
Dialling pulse timing: 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"/>	-
Break and make pulse period current and loop resistance: 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"/>	-
Inter-digital pause: 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"/>	-
Post pulsing period: 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"/>	-
Spark quenching: Limit: $R = 100\Omega - 200\Omega$ $C = 1.5 \mu F$ Measurement Result: $R =$ Ω $C =$ μF	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-

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Greece Advisory Notes		
Requirements	N/A N/T fail OK	Appendix A
GR03 Control of sending level in quiescent state:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	32-34
GR04 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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Portugal		
ATAAB Advisory Notes		
Requirements	N/A N/T fail OK	Appendix A
ATAAB AN 001 Automatic Dialling: 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: $t = 4.07 s$ <input checked="" type="checkbox"/> Dialling with dial tone: $t = 0.87 s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	1-2
ATAAB AN 005 Automatic clearing of automatically originated or answered PSTN calls: Limit: $t < 360s$ Measurement Result: $t = 55.4 s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5
ATAAB AN 006 Resistance to earth: Limit: $U = 150 V DC \Rightarrow R > 100 k\Omega$ Measurement Result: $R > 49530 k\Omega$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	7
ATAAB AN 007 Liberation of loop condition by the TE in the event of power failure: Limit: Return to quiescent state within: $t < 30 s$ Measurement Result: $t < 1.72 s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	8-9
ATAAB AN 011 Establishment of loop for automatic answer: Limit: $t < 2 min$ Measurement Result: $t = 7.10 s$	<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
P03 Input impedance for voice band signal and billing signal in quiescent state: Limit: (Test Signal = 1.5 Vrms) 300 Hz - 4000 Hz $Z > 15 \text{ k}\Omega$ 4 kHz - 15 kHz $Z > 6 \text{ k}\Omega$ Measurement Result: 300 Hz - 4000 Hz $Z > 37.0 \text{ k}\Omega$ 4 kHz - 15 kHz $Z > 10.0 \text{ k}\Omega$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	47-48
P04 2 - Port - TE 4.1 Series DC resistance in loop state: Limit: $R < 100 \Omega$ Measurement Result: $R = \quad \Omega$	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
P04 2 - Port - TE 4.2 Transition from quiescent state to loop state: Limit: $t < 100 \text{ ms}$ Measurement Result: $t = \quad \text{ms}$	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
P04 2 - Port - TE 4.3 Insertion Loss of a Series Terminal Equipment Limit: Insertion Loss $< 1 \text{ dB}$ ($V_{\text{rms}} = 1.5\text{V}$: $300 \text{ Hz} < f < 3400 \text{ Hz}$) Measurement Result: Maximum Insertion Loss = $\quad \text{dB}$	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
P08 Restriction on seizing the line without the intent of making a call: 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"/>	-

Portugal Advisory Notes		
P10 Loop disconnect signalling Requirements according 25.01.51.001 - 5.6.1 Decimal Pulse Dialling	N/A N/T fail OK	Appendix A
5.6.1.1 Corresponding of digits and series of pulses 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"/>	-
5.6.1.2 / 3 Break and make pulse period ratio: 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"/>	-
5.6.1.4 Pre dialling stage 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"/>	-
5.6.1.5 Current during loop openings: 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"/>	-
5.6.1.6 Current during loop closing stages: 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"/>	-
5.6.1.7 Inter-digital pause time: 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"/>	-
5.6.1.8 Inter-digital pause current: 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"/>	-
5.6.1.9 Inter-digital pause, Dialling with current interruption: 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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5.6.1.10 Post pulsing period: 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"/>	-
--	--	---

Spain		
ATAAB Advisory Notes		
Requirements	N/A N/T fail OK	Appendix A
Spain Advisory Notes		
ATAAB AN 005 Automatic clearing of automatically originated or answered PSTN calls: Limit: t < 360s Measurement Result: t = 55.4 s	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	5
ATAAB AN 007 Liberation of Loop condition by the TE in the event of power failure: Limit: In quiescent state within: t < 30 s Measurement Result: t < 1.72 s	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	8-9
ATAAB AN 012 Transient after change to the opposite polarity: 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
ES 01 DC current and loop resistance: 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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Switzerland		
ATAAB Advisory Notes		
Requirements	N/A N/T fail OK	Appendix A
Switzerland Advisory Notes		
ATAAB AN 002 Ringling signal detector sensitivity: Measurement Result: Detecion of 24Vrms ringing signal	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	3-4

Norway		
ATAAB Advisory Notes		
Requirements	N/A N/T fail OK	Appendix A
Norwegian Advisory Notes		
ATAAB AN 002 Ringling signal detector sensitivity: Measurement Result: Detecion of 24Vrms ringing signal	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	3-4
ATAAB AN 005 Automatic clearing of automatically originated or answered PSTN calls: Limit: $t < 180s$ Measurement Result: $t = 55.1s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	6
ATAAB AN 007 Liberation of Loop condition by the TE in the event of power failure: Limit: In quiescent state within: $t < 30 s$ Measurement Result: $t < 1.72 s$	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	8-9
NO01 Control of sending level in quiescent state:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	32-34
NO02 DC current and loop resistance: 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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Anlage A
Appendix A

Messergebnisse
Measuring results

Protocol for Automatic dialling

AN 001 Dialling without dial tone detection

```

=====
Model No.      : M6535cidn      Feeding voltage   : 50.0 V
TEUT           : MFP            Polarity             : Normal
Number of TEUT : 214054091      Feeding resistor  : 850.0 Ohm
Manufacturer    : KYOCERA DS Inc. Feeding bridge    : TBR21
Date           : 22.10.14       Receiver impedance: Zr TBR21
Time           : 15:35.07       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		4.07	-	1?
--------------	--	------	---	----

Protocol for Automatic dialling

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

```

Model No.      : M6535cidn      Feeding voltage : 50.0 V
TEUT           : MFP            Polarity             : Normal
Number of TEUT: 214054091       Feeding resistor : 850.0 Ohm
Manufacturer   : KYOCERA DS Inc. Feeding bridge   : TBR21
Date           : 22.10.14        Receiver impedance: Zr TBR21
Time           : 15:36.25        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	3.84	0.87	1?
500	-35.7	3.72	0.75	1?
500	- 0.7	3.71	0.75	1?

Protocol for Automatic answering function Auto

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

Model No. : M6535cidn Feeding voltage : 48.0 V
 TEUT : MFP Current limitation: 40.0 mA
 Number of TEUT: 214054091 Polarity : Normal
 Manufacturer : KYOCERA DS Inc. Feeding resistor : 850.0 Ohm
 Date : 22.10.14 Trigger event : 1. pos. Edge
 Time : 15:40.02 Gain (internal) : -30.0 dB

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	21.89
13	20.0	90.0	1200	1200	4000	6.32
13	60.0	90.0	800	800	6000	7.91

Protocol for Automatic answering function Auto

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

```

=====
Model No.      : M6535cidn      Feeding voltage   : 48.0 V
TEUT           : MFP            Current limitation: 40.0 mA
Number of TEUT : 214054091      Polarity          : Normal
Manufacturer   : KYOCERA DS Inc. Feeding resistor  : 850.0 Ohm
Date           : 22.10.14        Trigger event     : 1. pos. Edge
Time           : 15:46.00        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	7.87
13	60.0	24.0	1200	1200	4000	6.29
13	20.0	90.0	1200	1200	4000	6.28
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	: 22.10.14	Feeding Voltage	: 50.0 V
Time	: 15:58.45	Polarity	: Normal
Operator	: Y. Miura	Current limitation	: 100.0 mA
Commission	: 214054091	Feeding Bridge	: TBR21
TEUT	: MFP		
Manufacturer	: KYOCERA DS Inc.		
Parameter set	: AN-05,A.3.1 2050 Ohm N		

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

Frequency Hz	Level dBm	td s	ton ms	toff ms	Disconnect after s
425	- 30.0	360.0	200	200	2.1
425	- 30.0	360.0	200	200	
			200	600	2.4
425	- 30.0	360.0	200	200	
			200	200	
			200	600	2.1
0	- 30.0	0.0	0	0	55.4

Protocol for Liberation of loop condition

Liberation of loop condition
EG 201 121/AN-05

Date	: 22.10.14	Feeding Voltage	: 50.0 V
Time	: 16:02.21	Polarity	: Normal
Operator	: Y. Miura	Current limitation	: 100.0 mA
Commission	: 214054091	Feeding Bridge	: TBR21
TEUT	: 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 Hz	Level dBm	td s	ton ms	toff ms	Disconnect after s
-----------------	--------------	---------	-----------	------------	-----------------------

No tone	-	-	-	-	55.1
---------	---	---	---	---	------

Protocol for Resistance to earth

Resistance to earth

Date : 22.10.14
 Time : 16:04.24
 Operator : Y. Miura
 Test Job : 214054091
 TEUT : MFP
 Parameter set : AN 06

Feeding bridge : germany
 Waiting Period : 10.0 sec

Verdict : PASS

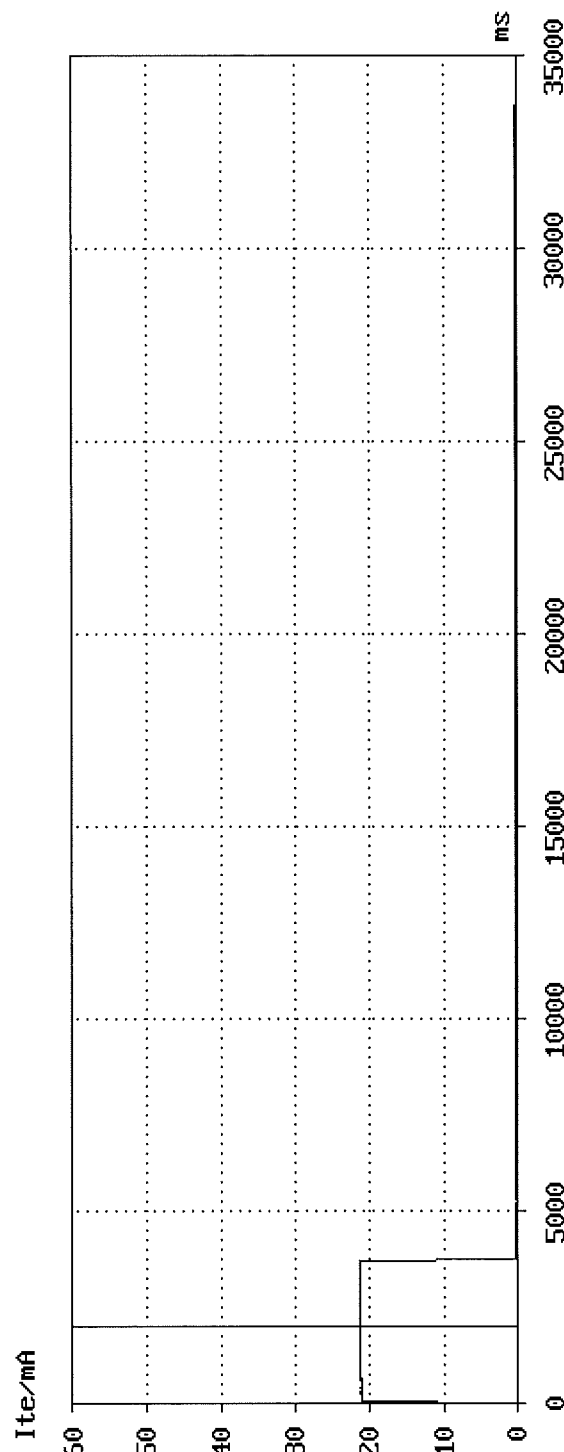
Remark : -

Uf V	Rf Ω	Polarity	Ut V	Rt Ω	Measure	Limit M Ω	Current uA	Resistance M Ω
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	2.02	49.53
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

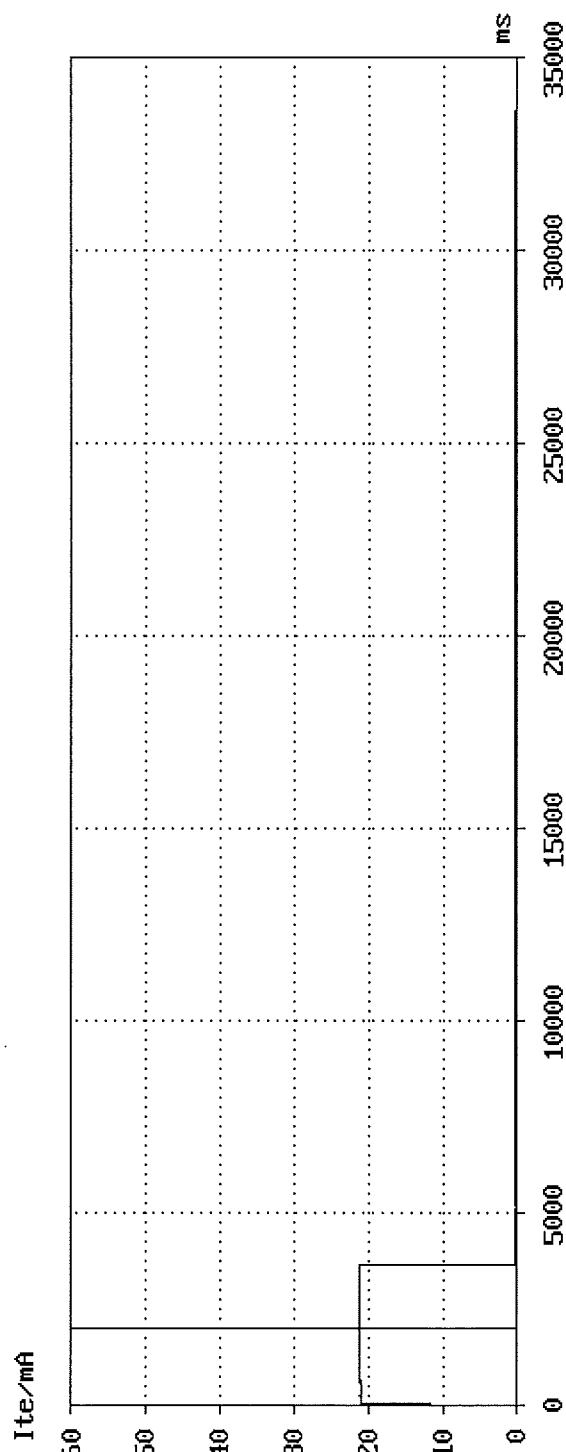
Test Job	: 214054091	Feeding Bridge	: TBR21
TEUT	: MFP	Feeding voltage	: 50.0 V
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 2050.0 Ohm
Operator	: Y. Miura	Polarity	: Normal
Date	: 22.10.14	Limit	: ≤ 30.0 s
Time	: 16:12.59	Measured value	: 1.72 s
Remark	: -	t0	: 1715 ms
Ite	: 0.02 mA	t01	: 1720 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	: 214054091	Feeding Bridge	: TBR21
TEUT	: MFP	Feeding voltage	: 50.0 V
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 2050.0 Ohm
Operator	: Y. Miura	Polarity	: Inverted
Date	: 22.10.14	Limit	: ≤ 30.0 s
Time	: 16:14.58	Measured value	: 1.645 s
Remark	: -	t0	: 1640 ms
Ite	: 0.02 mA	t01	: 1645 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.      : M6535cidn      Feeding voltage   : 50 V
TEUT           : MFP            Current limitation: 80 mA
Number of TEUT : 214054091      Polarity          : Normal
Manufacturer    : KYOCERA DS Inc. Feeding resistor  : 230 Ω
Date           : 20.10.14       Trigger lev./delay: -12.0 dBV 10 msec
Time           : 11:30.03       Receiver impedance: Zr TBR21
                                   Receiver filter   : BP 200-3800 Hz
                                   Call setup        : outgoing
                                   Gain (internal)    : -6.0 dB
=====
```

Data set : TBR21-4.7.3.1 230 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: 1.22 Vpp

Verdict : PASS

Mean level
dBV

- 13.2

Protocol for Maximum mean sending level

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

```
=====
Model No.      : M6535cidn      Feeding voltage   : 50 V
TEUT           : MFP            Current limitation: 80 mA
Number of TEUT : 214054091      Polarity          : Inverted
Manufacturer   : KYOCERA DS Inc. Feeding resistor  : 230 Ω
Date           : 20.10.14       Trigger lev./delay: -12.0 dBV 10 msec
Time           : 13:13.05       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: 1.10 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.      : M6535cidn      Feeding voltage   : 50 V
TEUT           : MFP            Current limitation: 80 mA
Number of TEUT : 214054091      Polarity          : Normal
Manufacturer    : KYOCERA DS Inc. Feeding resistor  : 3200 Ω
Date           : 20.10.14       Trigger lev./delay: -12.0 dBV 10 msec
Time           : 13:34.51       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: 1.18 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.      : M6535cidn      Feeding voltage   : 50 V
TEUT           : MFP            Current limitation: 80 mA
Number of TEUT : 214054091      Polarity          : Inverted
Manufacturer   : KYOCERA DS Inc. Feeding resistor  : 3200 Ω
Date           : 20.10.14       Trigger lev./delay: -12.0 dBV 10 msec
Time           : 13:46.02       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: 0.84 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.      : M6535cidn      Feeding voltage   : 50 V
TEUT           : MFP            Current limitation: 80 mA
Number of TEUT : 214054091      Polarity          : Normal
Manufacturer   : KYOCERA DS Inc. Feeding resistor  : 230 Ω
Date           : 20.10.14       Trigger lev./delay: -12.0 dBV 10 msec
Time           : 13:57.26       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: 0.69 Vpp

Verdict : PASS

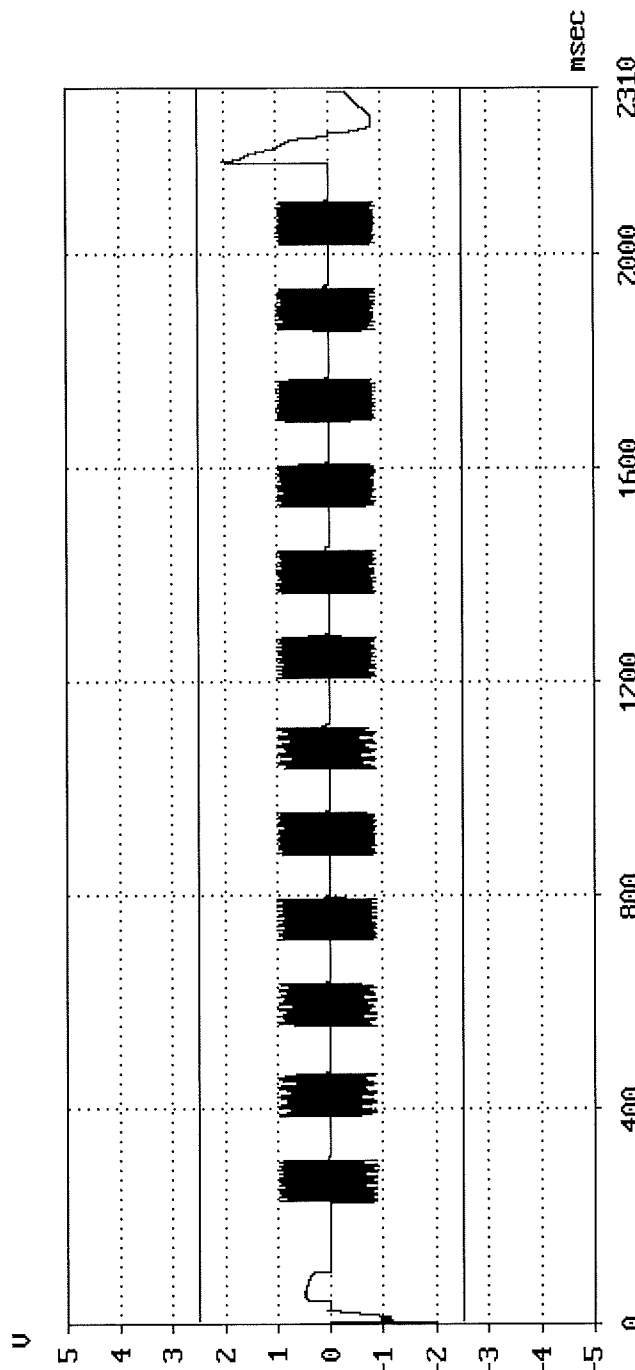
Mean level
dBV

- 13.1

DTMF instantaneous voltage

EG 201 121/AN-09

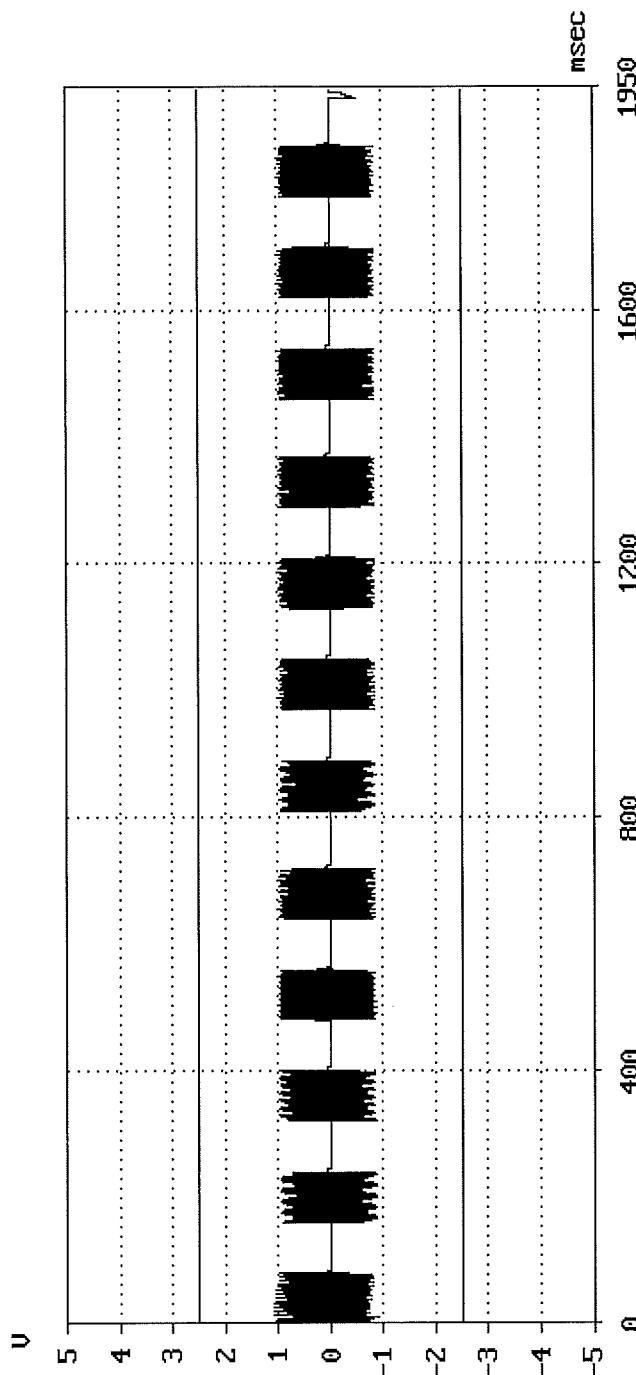
Test Job	: 214054091	Mask violations	: 0
TEUT	: MFP	Measured voltage	: OK
Manufacturer	: KYOCERA DS Inc.	Temporary Voltage	: 5.0 Vpp for 0.0 msec
Operator	: Y. Miura	Feeding Voltage	: 50.0 V
Date	: 22.10.14	Polarity	: Normal
Time	: 17:13.07	Feeding Resistor	: 230.0 Ohm
Remark	: -	Filter	: BP 5-4300 Hz
Verdict	: PASS	Trigger	: OK
		User Operation	: DTMF



DTMF instantaneous voltage

EG 201 121/AN-09

Test Job	: 214054091	Mask violations	: 0
TEUT	: 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	: 22.10.14	Polarity	: Inverted
Time	: 17:16.45	Feeding Resistor	: 3200.0 Ohm
Remark	: -	Filter	: BP 5-4300 Hz
Verdict	: PASS	Trigger	: OK
		User Operation	: DTMF

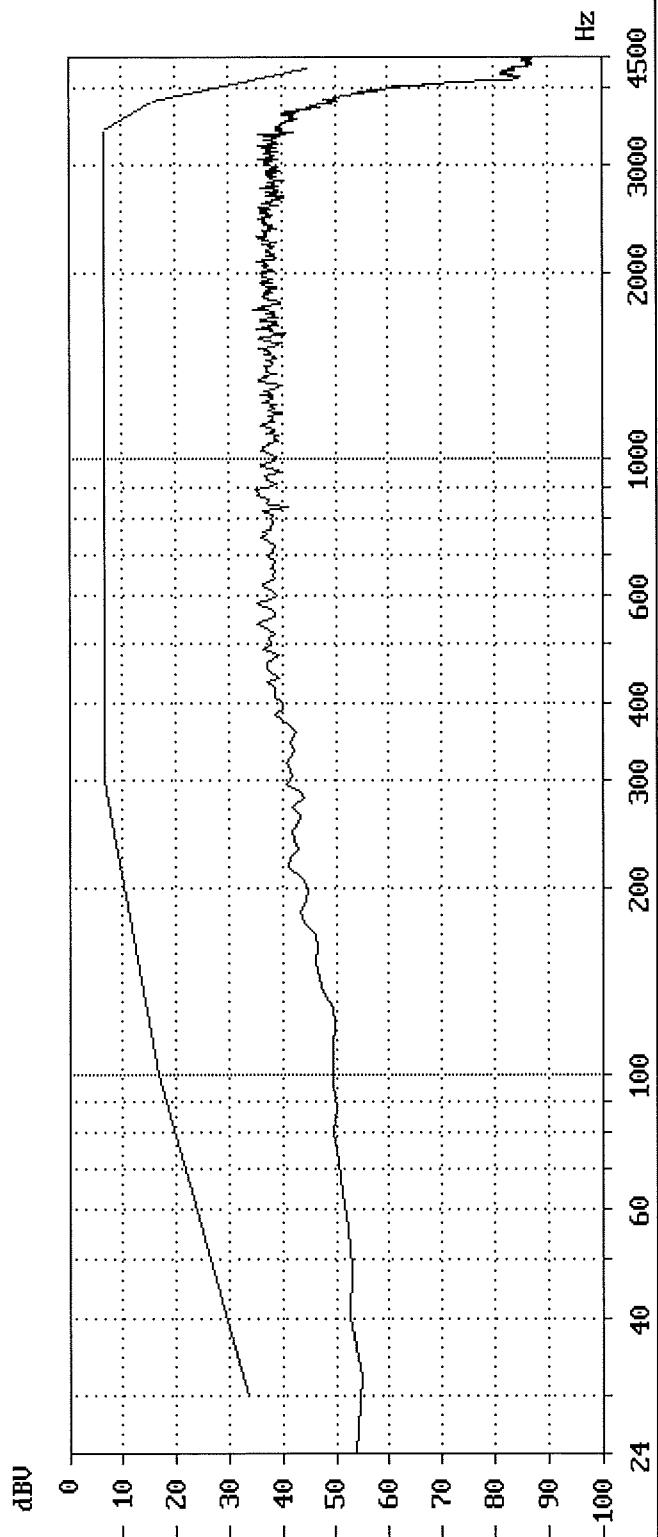


AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Model No. : M6535cidn	Feeding voltage : 50.0 V	Feeding bridge: TBR21
TEUT : MFP	Current limitation: 80.0 mA	Max. Level : - 34.8 dBu
Number of TEUT: 214054091	Polarity : Normal	Frequency : 1747 Hz
Manufacturer : KYOCERA DS Inc.	Feeding resistor : 230.0 Ohm	Rx impedance : 2r TBR21
Date : 20.10.14	Requirement: The voltage	Call setup : outgoing
Time : 16:06.22	shall not exceed the limits	
Remark : U.34 33600bps	Data set : AN10 230 Ohm N	

Mask violation: 0

Verdict : PASS

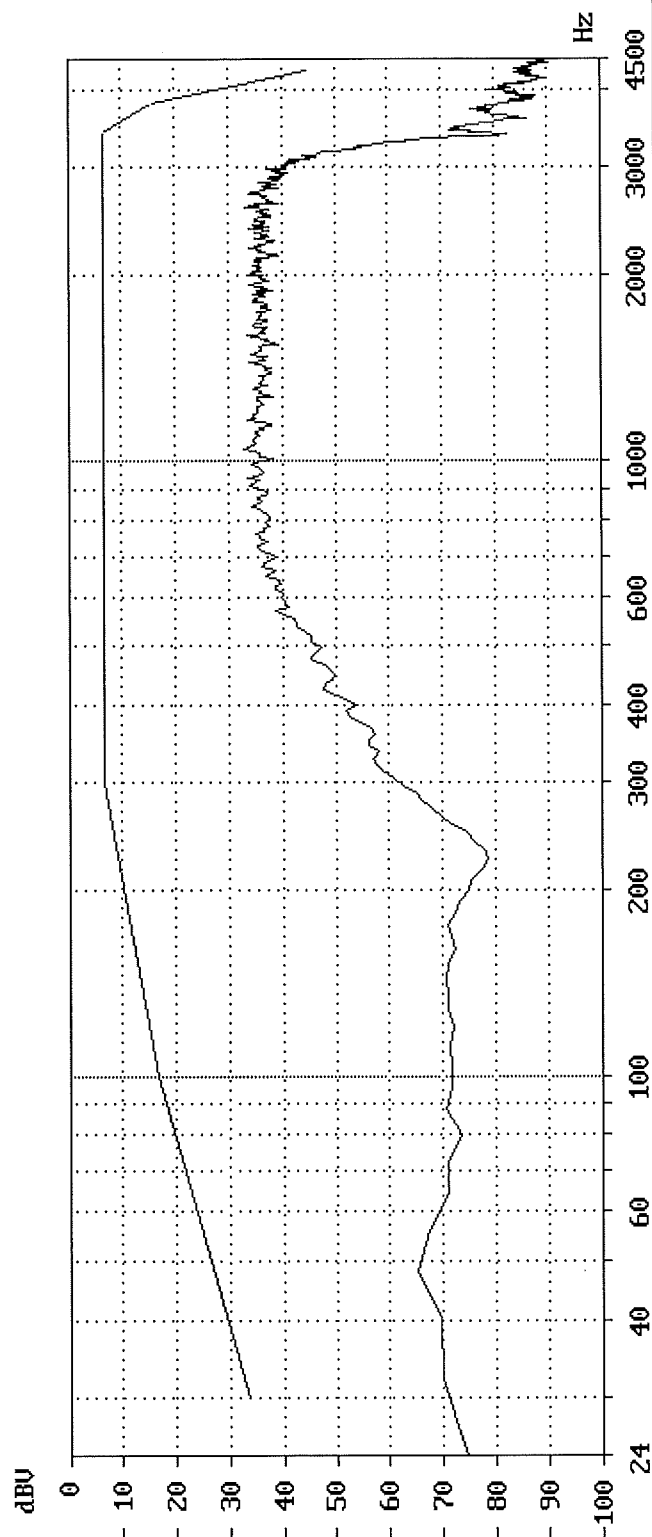


AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Model No.	: M6535cidn	Feeding voltage	: 50.0 V	Feeding bridge:	TBR21
TEUT	: MFP	Current limitation:	80.0 mA	Max. Level	: - 33.1 dBu
Number of TEUT:	214054091	Polarity	: Inverted	Frequency	: 1042 Hz
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 230.0 Ohm	Rx impedance	: Zr TBR21
Date	: 20.10.14	Requirement:	The voltage	Call setup	: outgoing
Time	: 13:25.34	shall not exceed the limits			
Remark	: U.17 14400bps	Data set	: AN10 230 Ohm I		

Verdict : PASS

Mask violation: 0



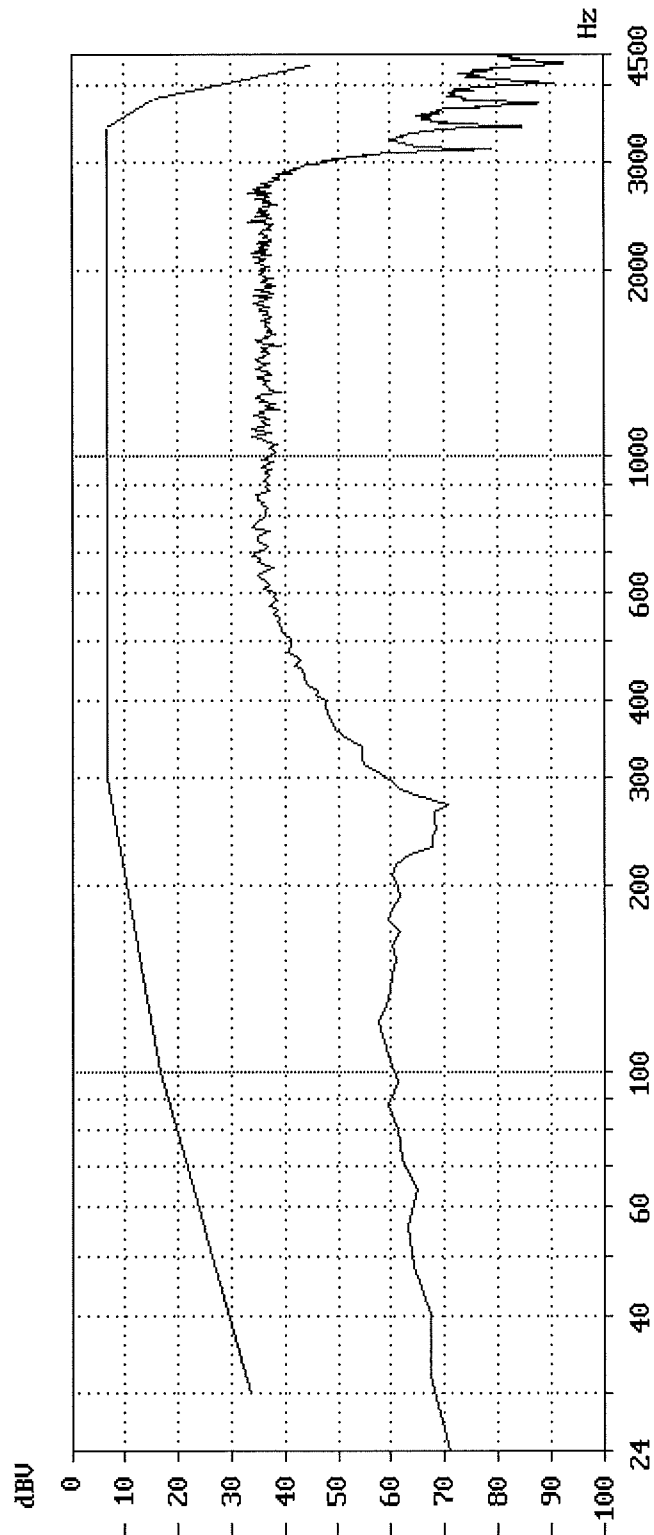
AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Model No.	: M6535cidn	Feeding voltage	: 50.0 V	Feeding bridge:	TBR21
TEUT	: MFP	Current limitation:	80.0 mA	Max. Level	: - 33.3 dBV
Number of TEUT:	214054091	Polarity	: Normal	Frequency	: 2660 Hz
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 3200.0 Ohm	Rx impedance	: Zr TBR21
Date	: 20.10.14	Requirement:	The voltage shall not exceed the limits	Call setup	: outgoing
Time	: 13:37.04	Data set	: AN10 3200 Ohm N		

Remark : 0.29 9600bps

Mask violation: 0

Verdict : PASS



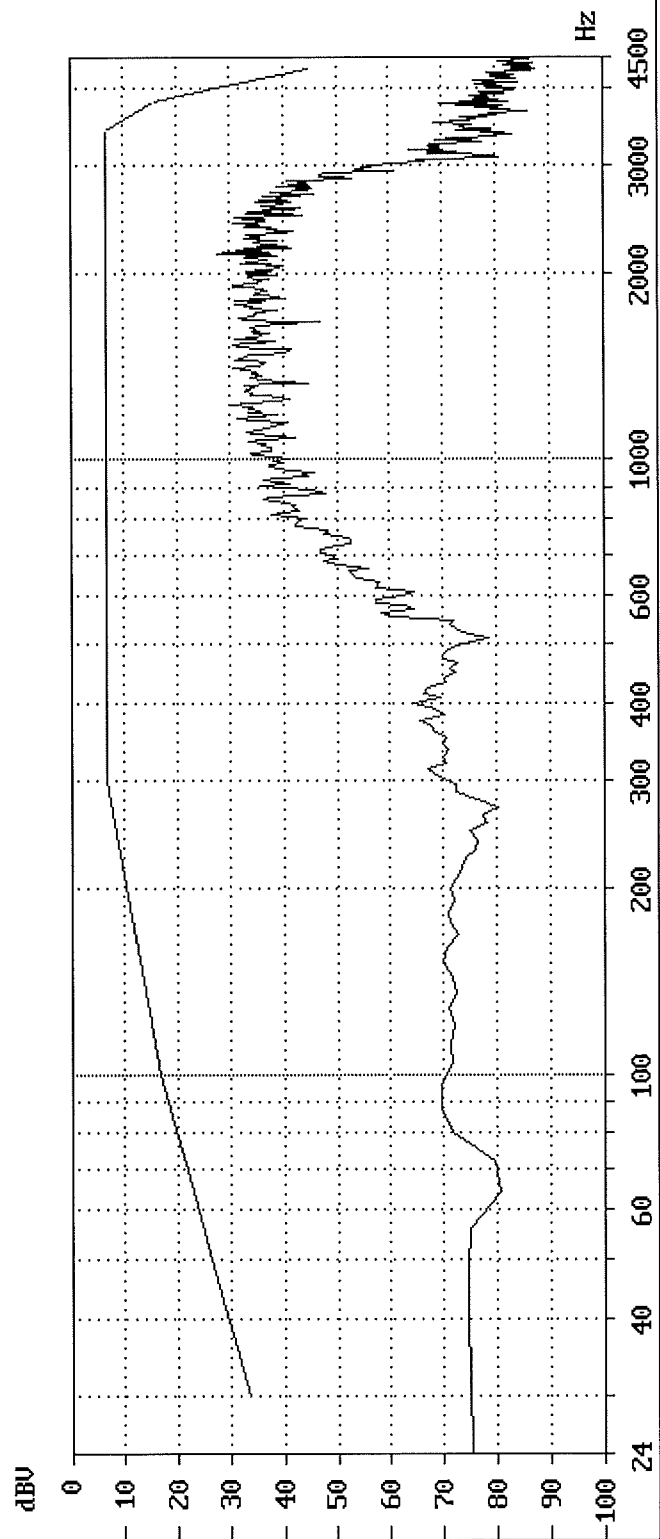
AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Model No.	: M6535cidn	Feeding voltage	: 50.0 V	Feeding bridge:	TBR21
TEUT	: MFP	Current limitation:	80.0 mA	Max. Level	: - 27.8 dBu
Number of TEUT:	214054091	Polarity	: Inverted	Frequency	: 2155 Hz
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 3200.0 Ohm	Rx impedance	: 2r TBR21
Date	: 20.10.14	Requirement:	The voltage shall not exceed the limits	Call setup	: outgoing
Time	: 13:49.08	Data set	: AN10 3200 Ohm I		

Remark : U.27ter 4800bps

Mask violation: 0

Verdict : PASS



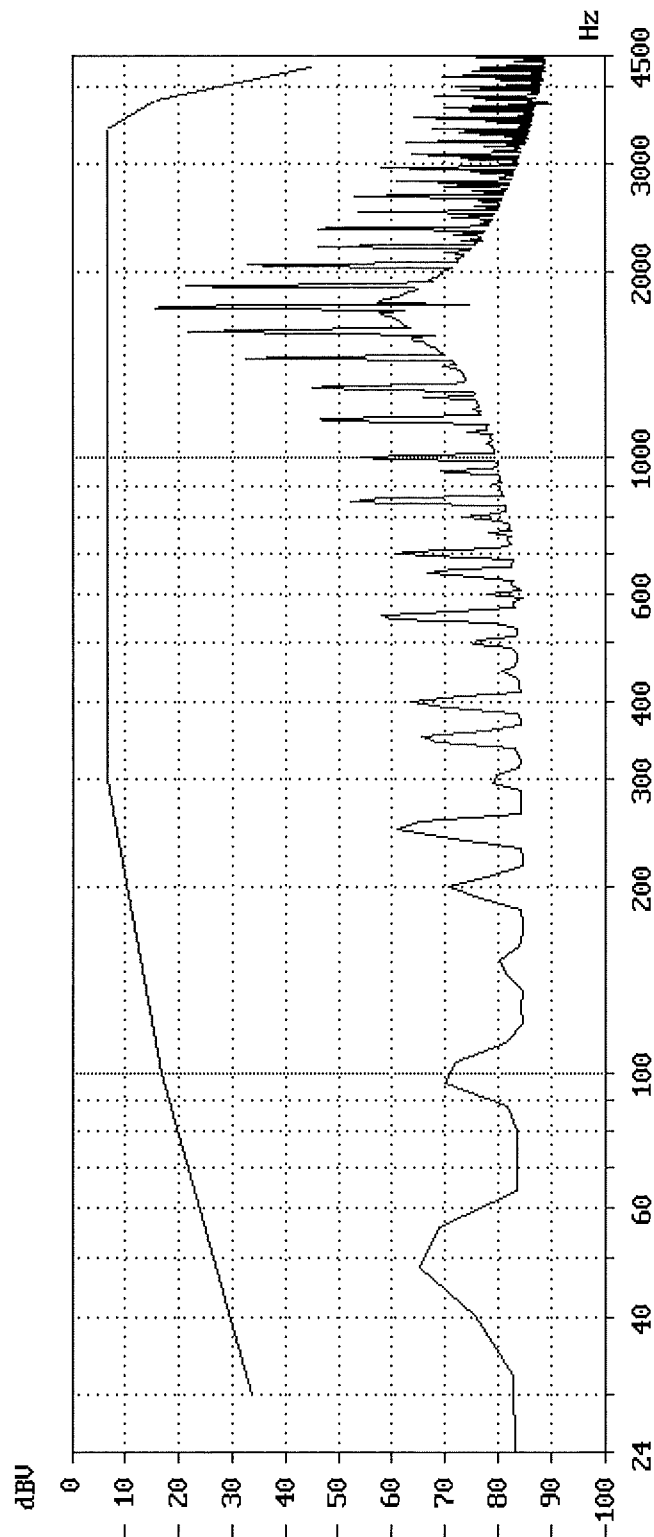
AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Model No. : M6535cidn	Feeding voltage : 50.0 V	Feeding bridge: TBR21
TEUT : MFP	Current limitation: 80.0 mA	Max. Level : - 15.7 dBV
Number of TEUT: 214054091	Polarity : Normal	Frequency : 1747 Hz
Manufacturer : KYOCERA DS Inc.	Feeding resistor : 230.0 Ohm	Rx impedance : 2r TBR21
Date : 20.10.14	Requirement: The voltage	Call setup : outgoing
Time : 13:59.52	shall not exceed the limits	
	Data set : AN10 230 Ohm N	

Remark : U.21 300bps

Mask violation: 0

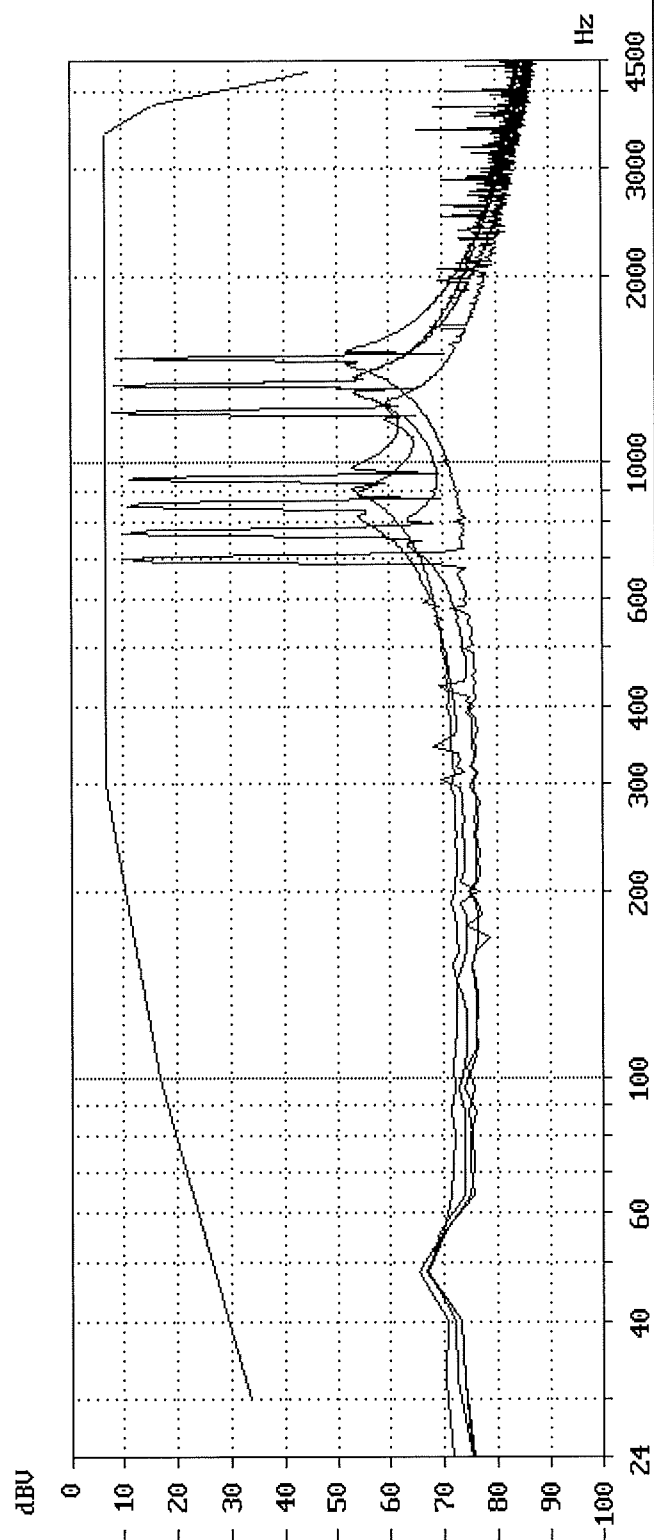
Verdict : PASS



AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Comission : 214054091
 Printing time : 22.10.14 17:21.58
 Graph 1
 Graph 2
 Graph 3
 Graph 4

Requirement: The voltage
 shall not exceed the limits

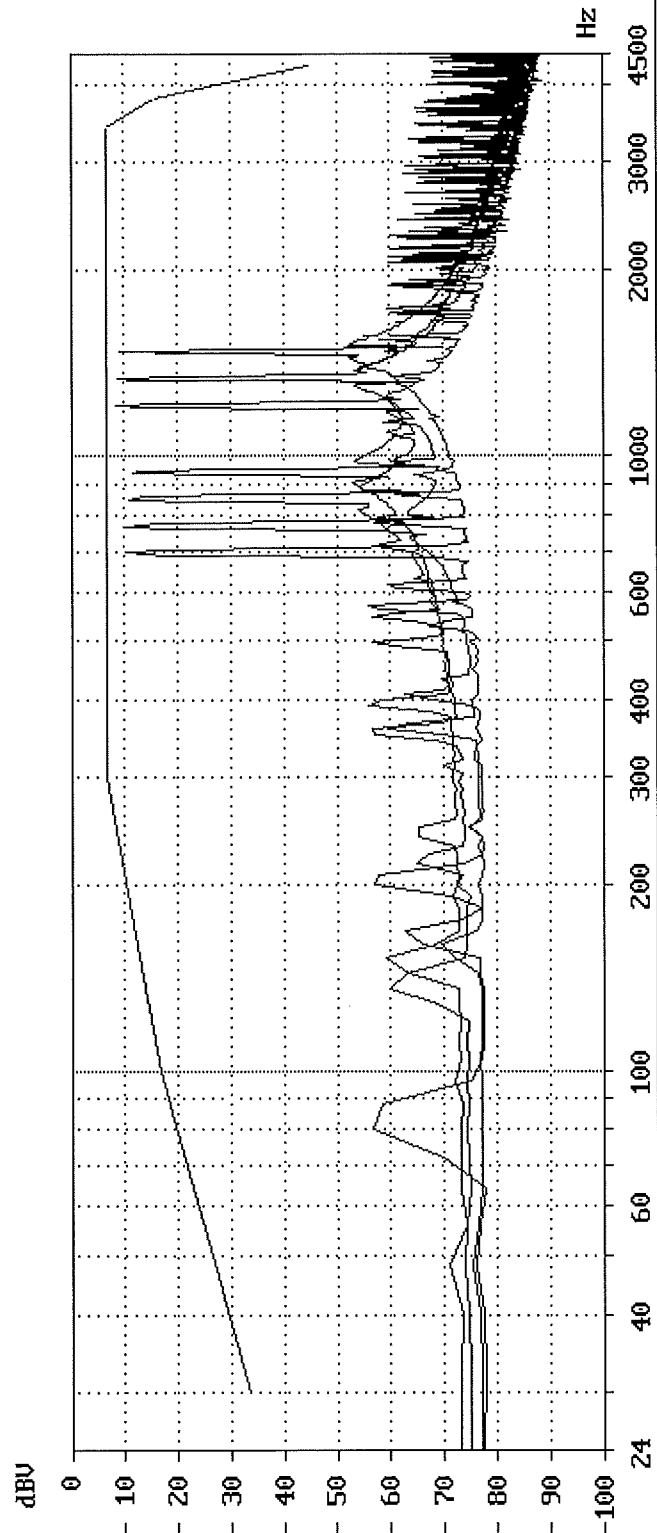


Maximum voltage in 10Hz bandwidth Comission : 214054091		Printing time : 22.10.14 17:21.58	
Graph 1		Graph 2	Graph 3
Model No.	M6535cidn	M6535cidn	M6535cidn
TEUT	MFP	MFP	MFP
Number of TEUT	214054091	214054091	214054091
Manufacturer	KYOCERA DS Inc.	KYOCERA DS Inc.	KYOCERA DS Inc.
Date	22.10.14	22.10.14	22.10.14
Time	17:20.24	17:20.41	17:20.55
Mask violation	0	0	0
Feeding voltage	50.0 V	50.0 V	50.0 V
Current limitation	80.0 mA	80.0 mA	80.0 mA
Polarity	Normal	Normal	Normal
Feeding resistor	230.0 Ohm	230.0 Ohm	230.0 Ohm
Data set	AN10 230 Ohm N	AN10 230 Ohm N	AN10 230 Ohm N
Feeding bridge	TBR21	TBR21	TBR21
Max. Level	- 9.0 dBV	- 8.6 dBV	- 8.2 dBV
Frequency	1474 Hz	1338 Hz	1210 Hz
Rx impedance	Zr TBR21	Zr TBR21	Zr TBR21
Call setup	outgoing	outgoing	outgoing
Verdict	PASS	PASS	PASS
Remark	DTMF 3	DTMF 5	DTMF 7
Graph 4			
Model No.	M6535cidn		
TEUT	MFP		
Number of TEUT	214054091		
Manufacturer	KYOCERA DS Inc.		
Date	22.10.14		
Time	17:21.10		
Mask violation	0		
Feeding voltage	50.0 V		
Current limitation	80.0 mA		
Polarity	Normal		
Feeding resistor	230.0 Ohm		
Data set	AN10 230 Ohm N		
Feeding bridge	TBR21		
Max. Level	- 8.6 dBV		
Frequency	1338 Hz		
Rx impedance	Zr TBR21		
Call setup	outgoing		
Verdict	PASS		
Remark	DTMF 0		

AN 10 Sending level in 10Hz bandwidth regarding TBR 15

Comission : 214054091
 Printing time : 22.10.14 17:24.31
 Graph 1
 Graph 2
 Graph 3
 Graph 4

Requirement: The voltage
 shall not exceed the limits



Maximum voltage in 10Hz bandwidth Comission : 214054091		Printing time : 22.10.14 17:24.31	
Graph 1		Graph 2	Graph 3
Model No.	M6535cidn	M6535cidn	M6535cidn
TEUT	MFP	MFP	MFP
Number of TEUT	214054091	214054091	214054091
Manufacturer	KYOCERA DS Inc.	KYOCERA DS Inc.	KYOCERA DS Inc.
Date	22.10.14	22.10.14	22.10.14
Time	17:22.50	17:23.06	17:23.24
Mask violation	0	0	0
Feeding voltage	50.0 V	50.0 V	50.0 V
Current limitation	80.0 mA	80.0 mA	80.0 mA
Polarity	Inverted	Inverted	Inverted
Feeding resistor	3200.0 Ohm	3200.0 Ohm	3200.0 Ohm
Data set	AN10 3200 Ohm I	AN10 3200 Ohm I	AN10 3200 Ohm I
Feeding bridge	TBR21	TBR21	TBR21
Max. Level	- 9.1 dBV	- 8.8 dBV	- 8.4 dBV
Frequency	1474 Hz	1338 Hz	1210 Hz
Rx impedance	Zr TBR21	Zr TBR21	Zr TBR21
Call setup	outgoing	outgoing	outgoing
Verdict	PASS	PASS	PASS
Remark	DTMF 3	DTMF 5	DTMF 7
Graph 4			
Model No.	M6535cidn		
TEUT	MFP		
Number of TEUT	214054091		
Manufacturer	KYOCERA DS Inc.		
Date	22.10.14		
Time	17:23.42		
Mask violation	0		
Feeding voltage	50.0 V		
Current limitation	80.0 mA		
Polarity	Inverted		
Feeding resistor	3200.0 Ohm		
Data set	AN10 3200 Ohm I		
Feeding bridge	TBR21		
Max. Level	- 8.8 dBV		
Frequency	1338 Hz		
Rx impedance	Zr TBR21		
Call setup	outgoing		
Verdict	PASS		
Remark	DTMF 0		

Protocol for Automatic answering function Auto

Automatic answering function Auto
EG 201 121/AN-11

Date	: 24.10.14	Feeding Voltage	: 50.0 V
Time	: 16:46.46	Dropping Resis. Rv	: 850.0 Ohm
Operator	: Y. Miura	Polarity	: Normal
Commission	: 214054091	Trigger threshold	: 10.0 mA
TEUT	: 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	7.10
21	50.0	30.0	1000	1000	5000	7.10

Protocol for Automatic answering function Auto

Automatic answering function Auto
EG 201 121/AN-11

Date	: 24.10.14	Feeding Voltage	: 50.0 V
Time	: 16:49.53	Dropping Resis. Rv	: 850.0 Ohm
Operator	: Y. Miura	Polarity	: Inverted
Commission	: 214054091	Trigger threshold	: 10.0 mA
TEUT	: 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	7.10
21	50.0	30.0	1000	1000	5000	7.10

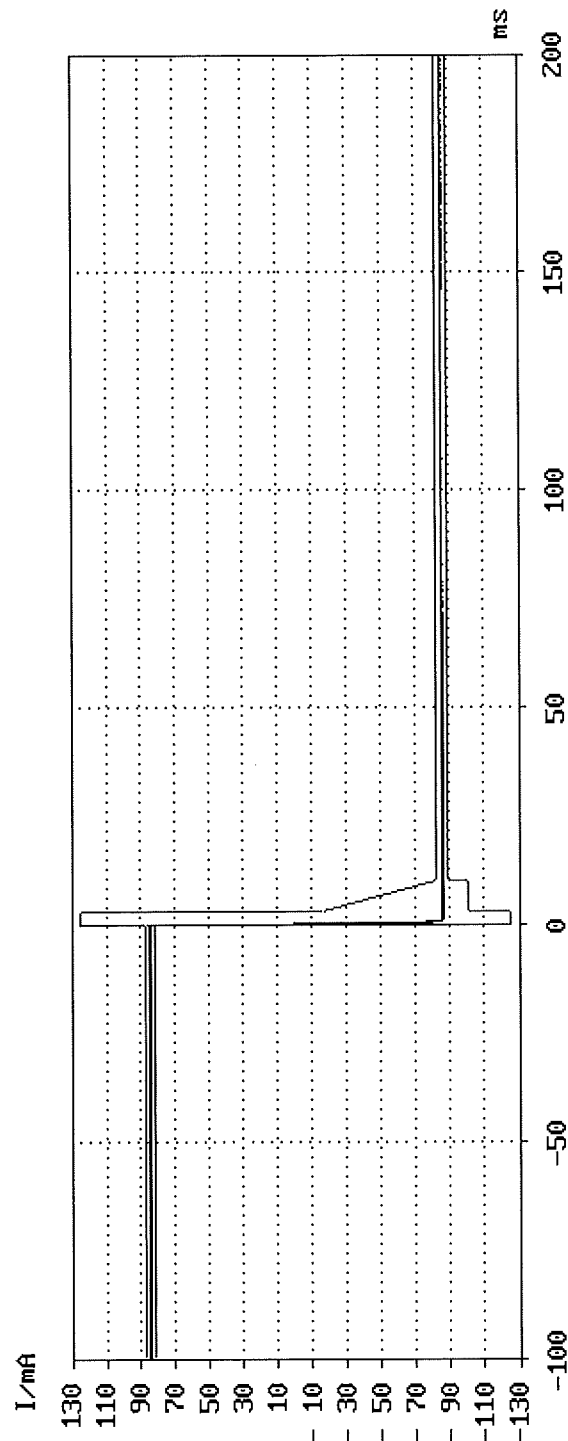
AN 12 Immunity to polarity reversals

Model No.	: M6535cidm	Current limitation:	100.0 mA	I1 :	84.46 mA
TEUT	: MFP	Feeding voltage :	50.0 V	I4 :	- 85.18 mA
Manufacturer	: KYOCERA DS Inc.	Drop resistor :	460.0 Ohm		
Number of TEUT	: 214054091	Polarity :	Normal		
Date	: 24.10.14	Measurement Time :	0.1 sec		
Time	: 16:56.36	Data set :	AM12 460 N		
		Requirement :	The current shall be within the limits.		

Remark : -

Mask violations : 0

Verdict : PASS

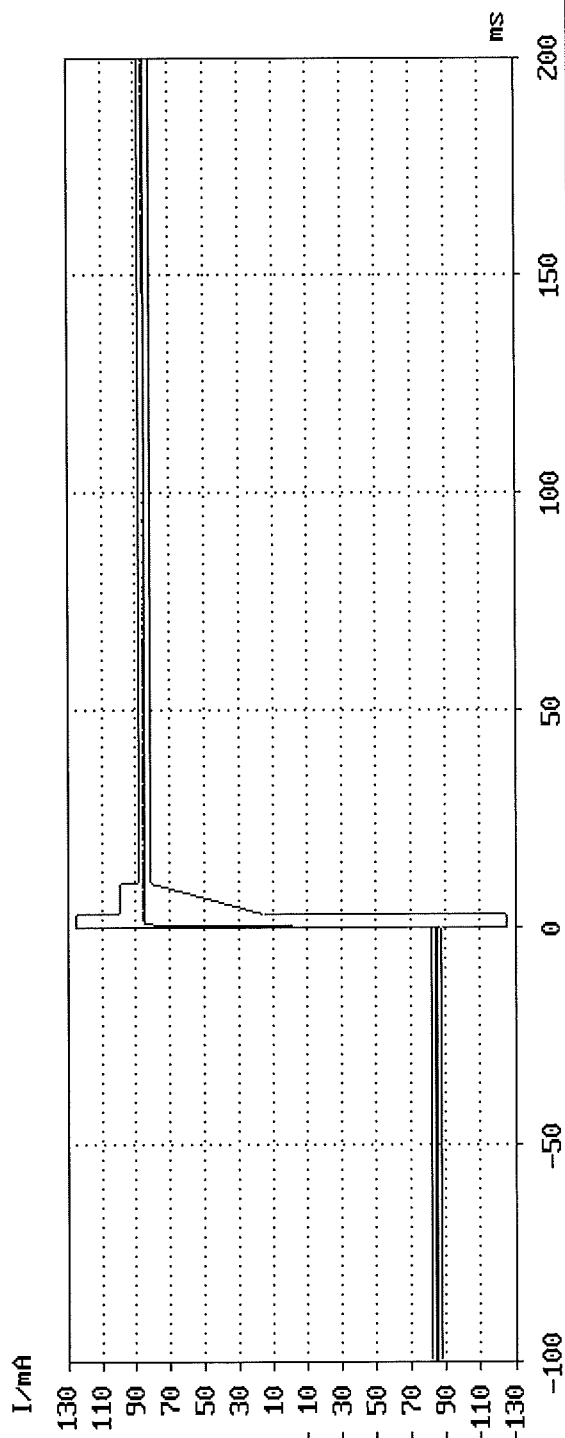


AN 12 Immunity to polarity reversals

Model No.	: M6535cidn	Current limitation:	100.0 mA	I1 : - 84.48 mA
TEUT	: MFP	Feeding voltage :	50.0 V	I4 : 85.22 mA
Manufacturer	: KYOCERA DS Inc.	Drop resistor	: 450.0 Ohm	
Number of TEUT	: 214054091	Polarity	: Inverted	
Date	: 24.10.14	Measurement Time	: 0.1 sec	
Time	: 16:57.51	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

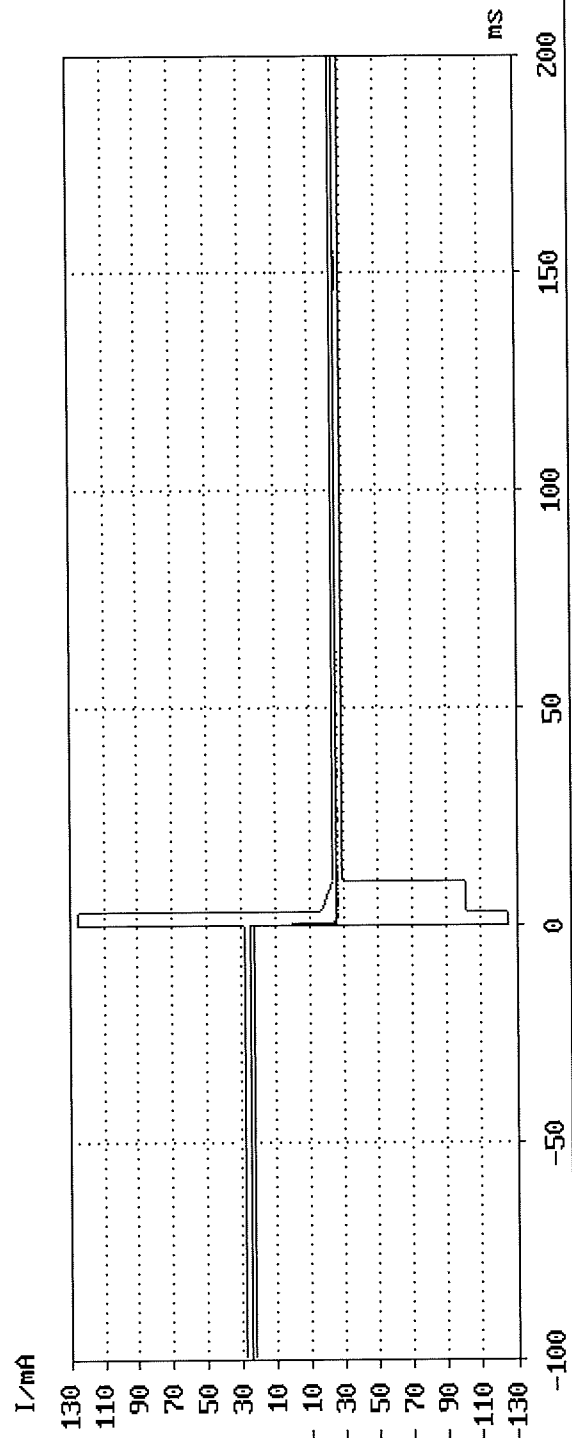
Model No. : M6535cidn
 TEUT : MFP
 Manufacturer : KYOCERA DS Inc.
 Number of TEUT : 214054091
 Date : 24.10.14
 Time : 16:59.05

Current limitation: 100.0 mA I1 : 25.28 mA
 Feeding voltage : 50.0 V I4 : - 25.38 mA
 Drop resistor : 1700.0 Ohm
 Polarity : Normal
 Measurement Time : 0.1 sec
 Data set : AN12 1700 N
 Requirement : The current shall be within the limits.

Remark : -

Mask violations : 0

Verdict : PASS

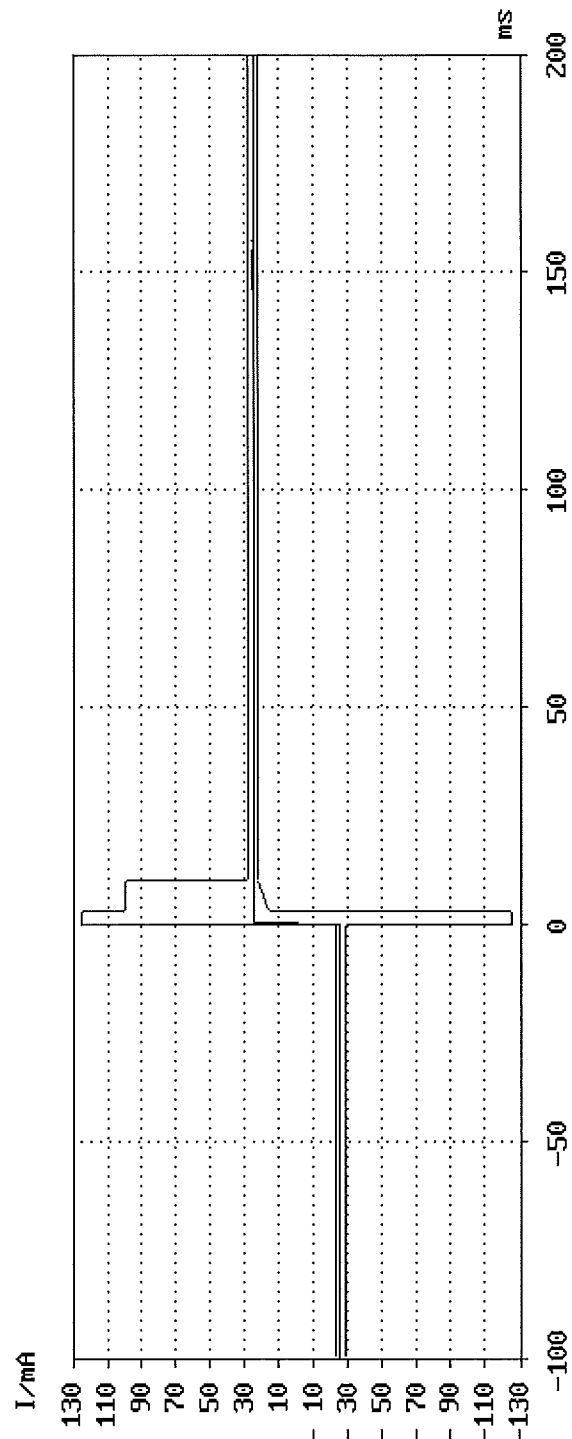


AN 12 Immunity to polarity reversals

Model No.	: M6535cidn	Current limitation:	100.0 mA	I1 : - 25.28 mA
TEUT	: MFP	Feeding voltage	: 50.0 V	I4 : 25.38 mA
Manufacturer	: KYOCERA DS Inc.	Drop resistor	: 1700.0 Ohm	
Number of TEUT	: 214054091	Polarity	: Inverted	
Date	: 24.10.14	Measurement Time	: 0.1 sec	
Time	: 17:00.24	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.      : M6535cidn      Feeding voltage   : 50 V
TEUT           : MFP            Current limitation: 80 mA
Number of TEUT : 214054091      Polarity          : Inverted
Manufacturer   : KYOCERA DS Inc. Feeding resistor  : 230 Ω
Date           : 28.10.14        Trigger lev./delay: -50.0 dBV 10 msec
Time           : 10:17.17        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 : 0.14Vpp

Verdict : PASS

Mean level
dBV

- 25.2

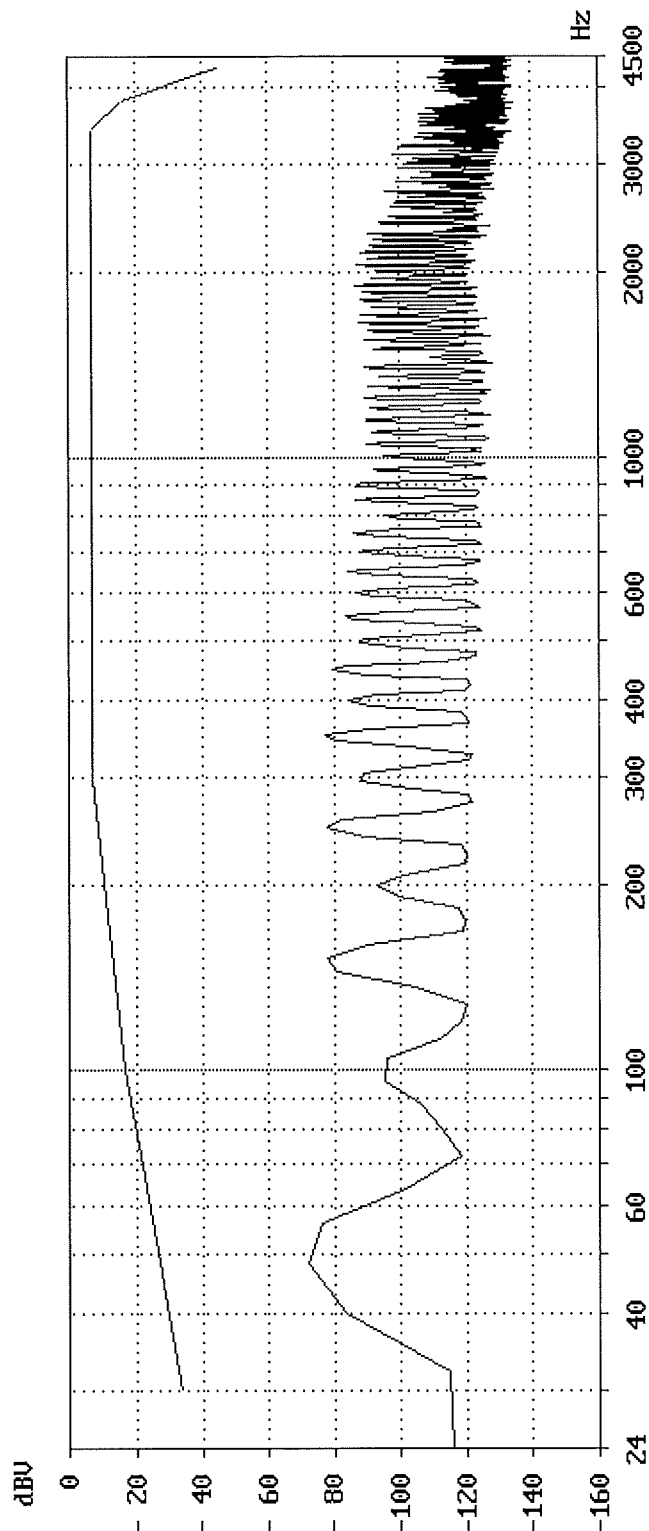
DE03 GR03 ND001 Sending level in 10 Hz bandwidth in quiescent state

Model No.	: M6535cidn	Feeding voltage	: 50.0 V	Feeding bridge:	TBR21
TEUT	: MFP	Current limitation:	80.0 mA	Max. Level	: - 72.4 dBV
Number of TEUT:	214054091	Polarity	: Inverted	Frequency	: 48 Hz
Manufacturer	: KYOCERA DS Inc.	Feeding resistor	: 230.0 Ohm	Rx impedance	: Zr TBR21
Date	: 28.10.14	Requirement:	The voltage shall not exceed the limits	Call setup	: outgoing
Time	: 10:18.50	Data set	: DE03 GR03 ND001		

Remark : -

Mask violation: 0

Verdict : PASS



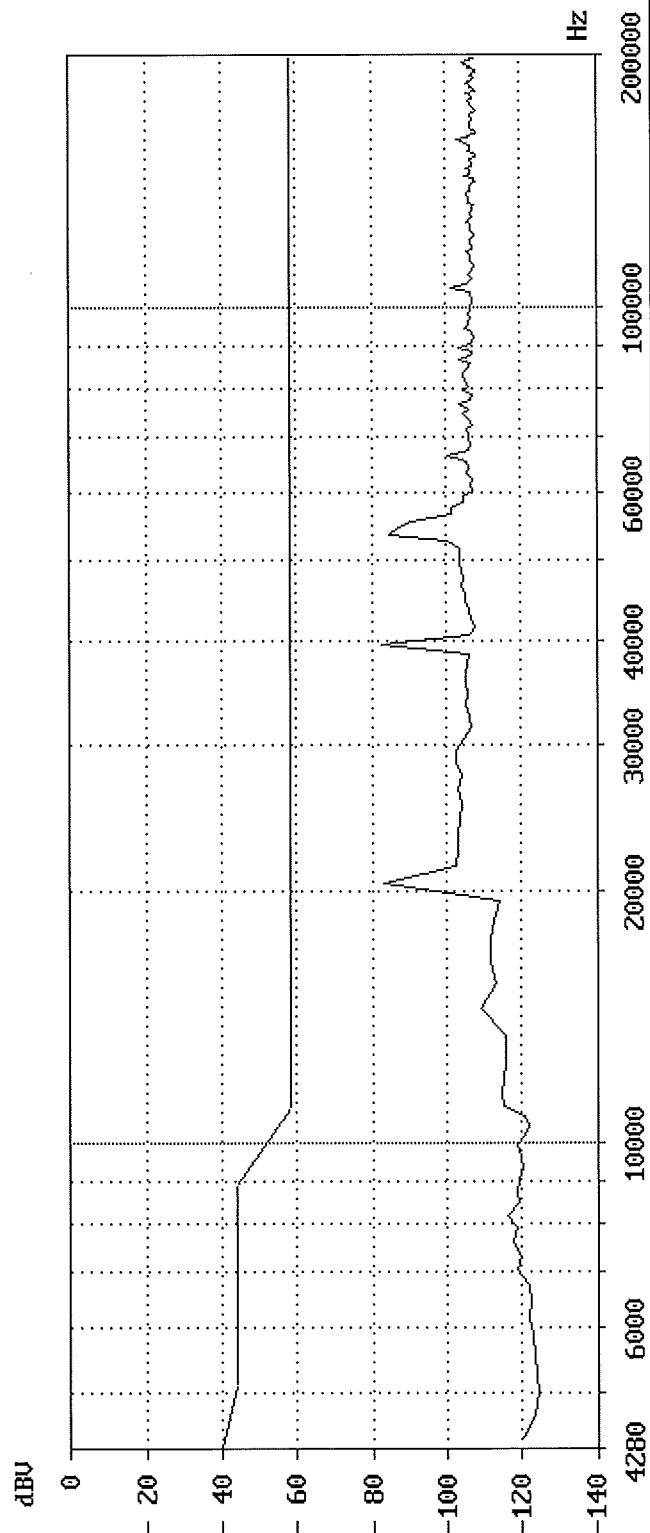
DE03 GR03 ND01 Sending level above 4.3 kHz in quiescent state

Model No. : M6535cidn	Feeding voltage : 50.0 V	Max. Level : - 82.3 dBV
TEUT : MFP	Polarity : Normal	at Frequency: 40000 Hz
Number of TEUT: 214054091	Feeding Resistor: 230.0 Ohm	Max. Level : - 82.8 dBV
Manufacturer : KYOCERA DS Inc.	Feeding Bridge : TBR21	Frequency : 20337 Hz
Date : 28.10.14	Requirement : The voltage level shall not exceed the limits	Rx impedance: Zr TBR21
Time : 10:24.15	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. : M6535cidn
 TEUT : MFP
 Number of TEUT: 214054091
 Manufacturer : KYOCERA DS Inc.
 Date : 28.10.14
 Time : 11:01.43

Data Set : DE04 GR04

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

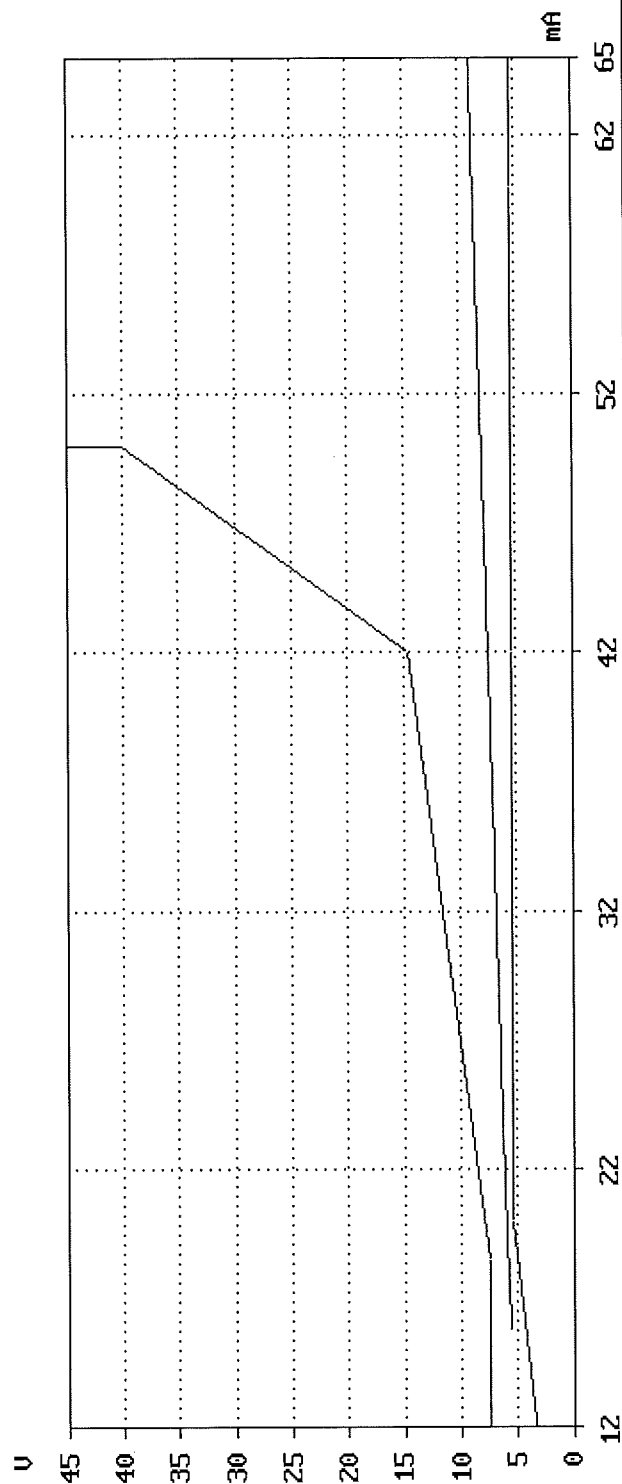
Remark : PASS

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 N002 ES01 Lower limit of voltage in DC characteristics

Model No.	: M6535cidn	Feeding voltage	: 50.0 V
TEUT	: MFP	Feeding	: 230/850/2050/3200 Ohm
Number of TEUT	: 214054091	Polarity	: normal
Manufacturer	: KYOCERA DS Inc.	Requirement	: The DC characteristic shall not exceed the limits
Date	: 28.10.14	Data set	: DE08 ES01 N002 60mA 2800N
Time	: 11:06.52		
Remark	: -		

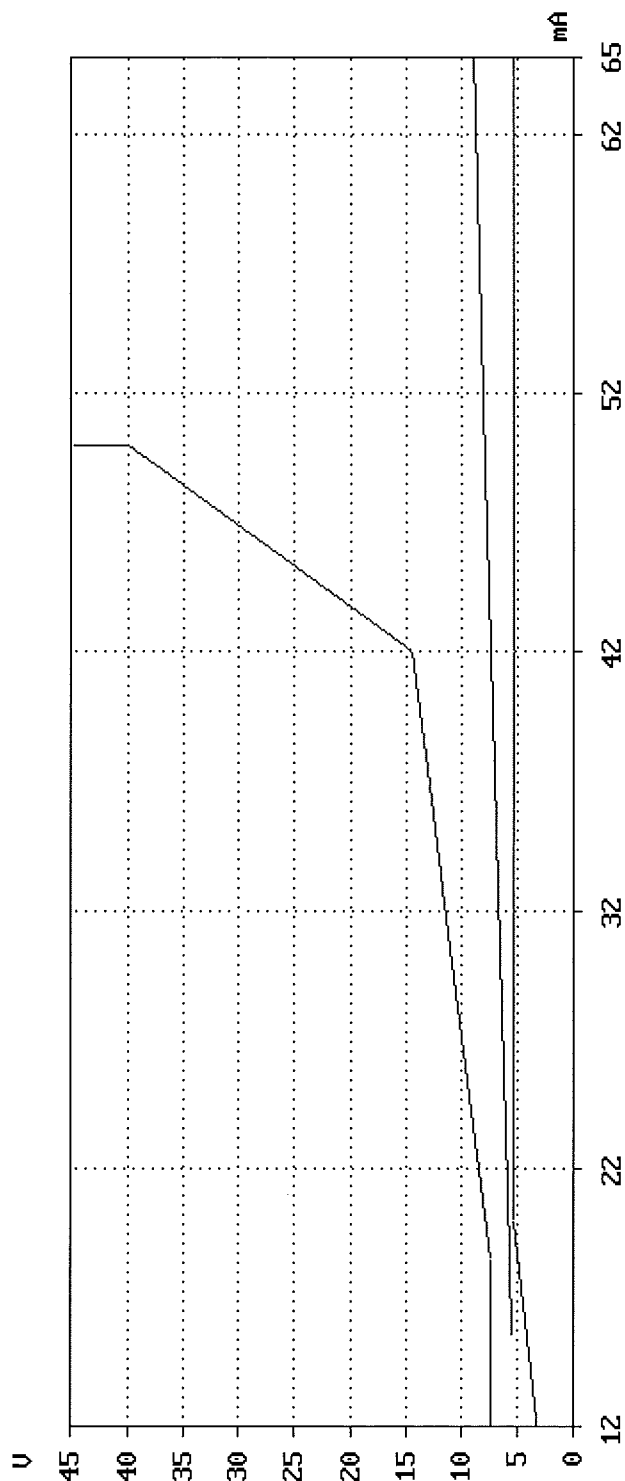
Mask violations: 0 Verdict : PASS



DE08 N002 ES01 Lower limit of voltage in DC characteristics

Model No.	: M6535cidn	Feeding voltage	: 50.0 V
TEUT	: MFP	Feeding	: 230/850/2050/3200 Ohm
Number of TEUT	: 214054091	Polarity	: inverted
Manufacturer	: KYOCERA DS Inc.	Requirement	: The DC characteristic shall not exceed the limits
Date	: 28.10.14	Data set	: DE08 ES01 N002 60mA 2800I
Time	: 11:10.36		
Remark	: -		

Mask violations: 0 Verdict : PASS



Protocol for DTMF Impedance

DTMF Impedance
EG 201 121, DE-09

Date	: 28.10.14	Feeding bridge	: TBR21
Time	: 11:11.24	Feeding Voltage	: 50.0 V
Operator	: Y. Miura	Feeding resistor	: 230.0 Ohm
Test Job	: 214054091	Polarity	: Normal
TEUT	: 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	56.3
3	889	41.4
3	1201	35.6
3	1706	34.4
5	576	43.9
5	1009	36.9
5	1105	43.3
5	1538	39.2
5	1706	34.9
7	600	34.2
7	1418	43.3
7	1706	35.1

Protocol for DTMF Impedance

DTMF Impedance
EG 201 121, DE-09

Date	: 28.10.14	Feeding bridge	: TBR21
Time	: 11:13.37	Feeding Voltage	: 50.0 V
Operator	: Y. Miura	Feeding resistor	: 850.0 Ohm
Test Job	: 214054091	Polarity	: Inverted
TEUT	: 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	44.6
3	889	40.5
3	1201	30.0
3	1706	25.5
5	576	45.1
5	1009	39.2
5	1105	51.1
5	1538	40.2
5	1706	38.3
7	600	35.8
7	1418	44.6
7	1706	37.1

Protocol for DTMF Impedance

DTMF Impedance
EG 201 121, DE-09

Date	: 28.10.14	Feeding bridge	: TBR21
Time	: 11:15.46	Feeding Voltage	: 50.0 V
Operator	: Y. Miura	Feeding resistor	: 2050.0 Ohm
Test Job	: 214054091	Polarity	: Normal
TEUT	: 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	42.9
3	889	39.9
3	1201	29.2
3	1706	24.7
5	576	43.5
5	1009	26.7
5	1105	23.1
5	1538	29.8
5	1706	37.7
7	600	35.8
7	1418	28.5
7	1706	35.1

Protocol for DTMF Impedance

DTMF Impedance
EG 201 121, DE-09

Date	: 28.10.14	Feeding bridge	: TBR21
Time	: 11:18.01	Feeding Voltage	: 50.0 V
Operator	: Y. Miura	Feeding resistor	: 3200.0 Ohm
Test Job	: 214054091	Polarity	: Inverted
TEUT	: MFP	Triggerlevel/delay	: -20.0 dBV 10 msec
Manufacturer:	KYOCERA DS Inc.	Bridge Impedance Zn:	Zr TBR21
Remark	: -	Audible tone	: DialTone
Verdict	: PASS		

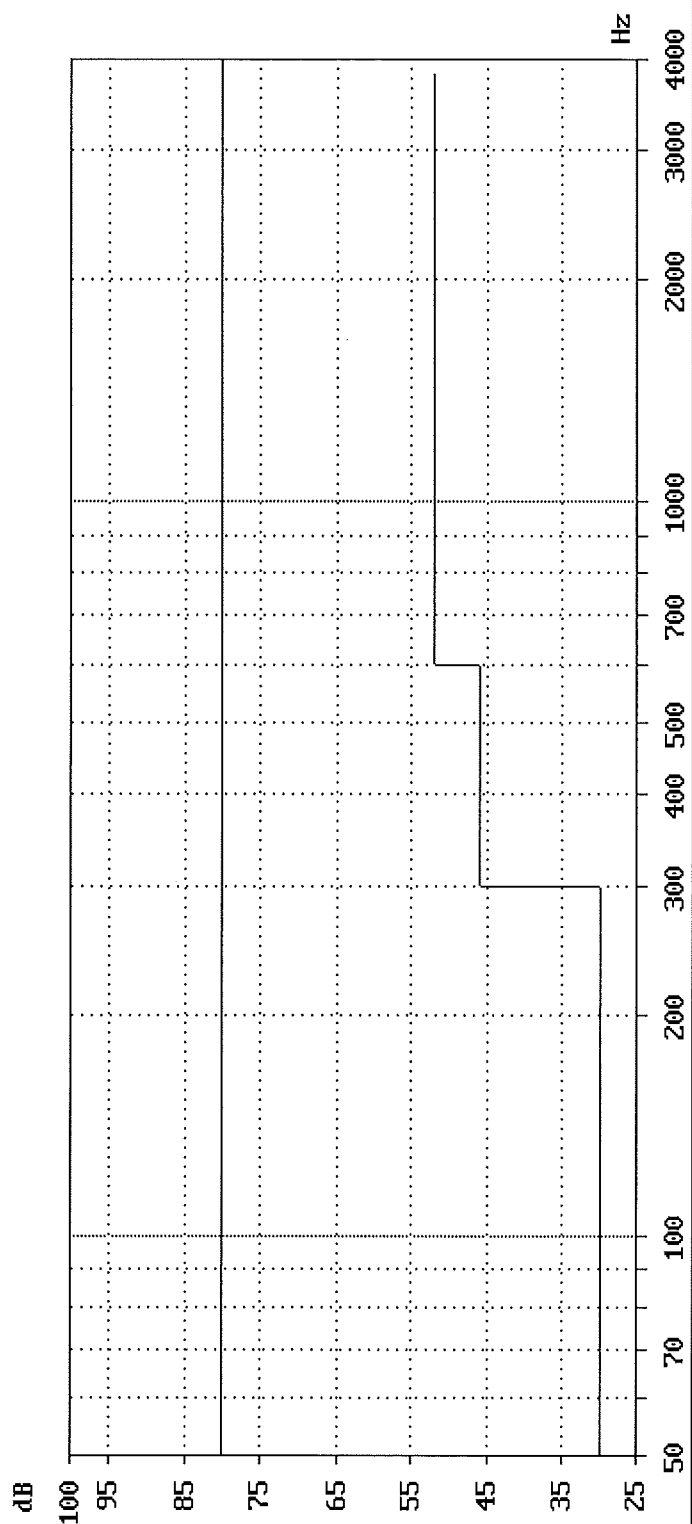
Digit	Frequency [Hz]	Loss [dB]
3	504	46.7
3	889	44.1
3	1201	29.7
3	1706	25.5
5	576	42.2
5	1009	27.5
5	1105	23.8
5	1538	31.1
5	1706	40.1
7	600	33.1
7	1418	27.5
7	1706	33.4

DE12 Output signal balance for better DTMF signalling

Model No. : M6535cidm	Feeding voltage : 50.0 V	Feeding Bridge: TBR21
TEUT : MFP	Current limitation: 80.0 mA	Mask violation: 0
Number of TEUT: 214054091	Polarity : Normal	Min. level Uo : -70.0 dBV
Manufacturer : KYOCERA DS Inc.	Feeding resistor : 230.0 Ohm	Call setup : outgoing
Date : 28.10.14	Requirement : The curve of results shall be greater than the limits	
Time : 11:24.41	Data set : DE12 230 N	

Remark : DTMF 3

Verdict : PASS

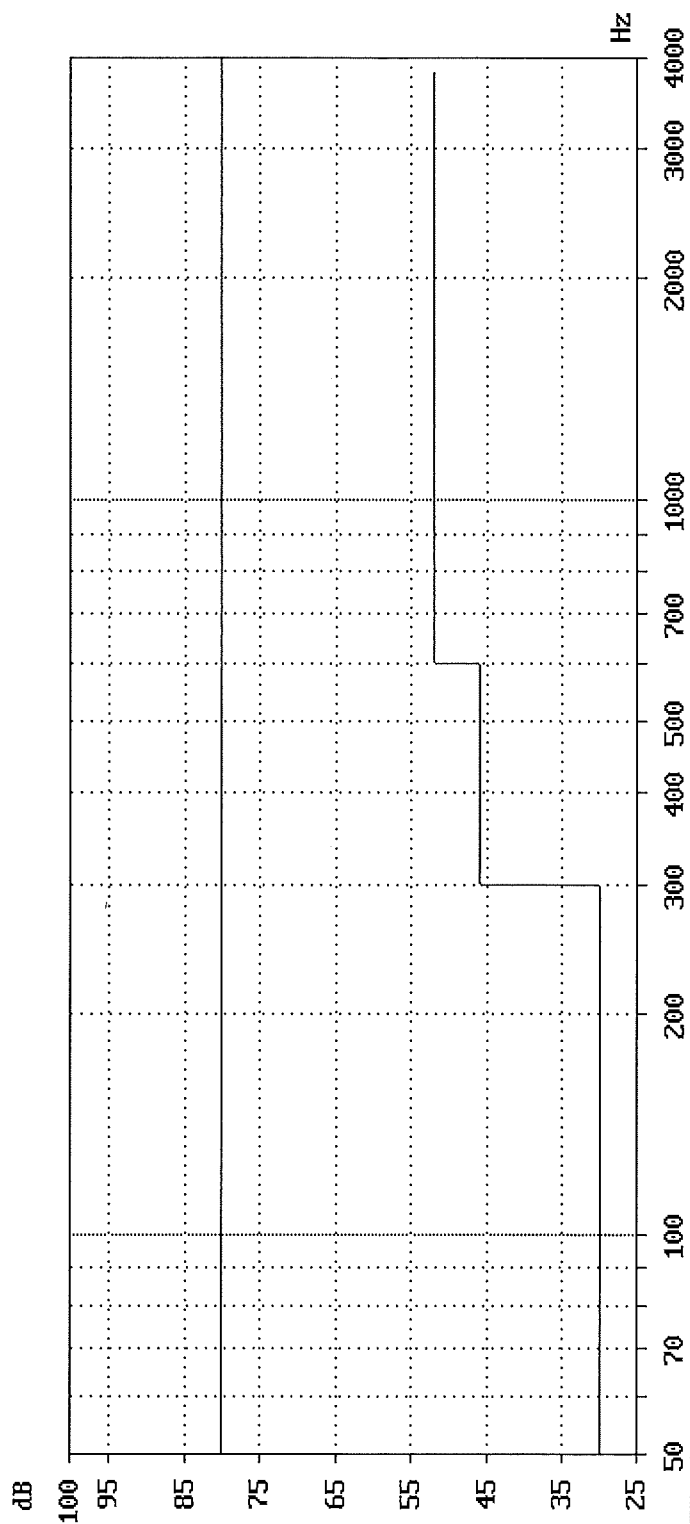


DE12 Output signal balance for better DTMF signalling

Model No. : M6535cidn	Feeding voltage : 50.0 V	Feeding Bridge: TBR21
TEUT : MFP	Current limitation: 80.0 mA	Mask violation: 0
Number of TEUT: 214054091	Polarity : Inverted	Min. level Uo : -70.0 dBV
Manufacturer : KYOCERA DS Inc.	Feeding resistor : 850.0 Ohm	Call setup : outgoing
Date : 28.10.14	Requirement : The curve of results shall be greater than the limits	
Time : 11:25.49	Data set : DE12 850 I	

Remark : DTMF 3

Verdict : PASS

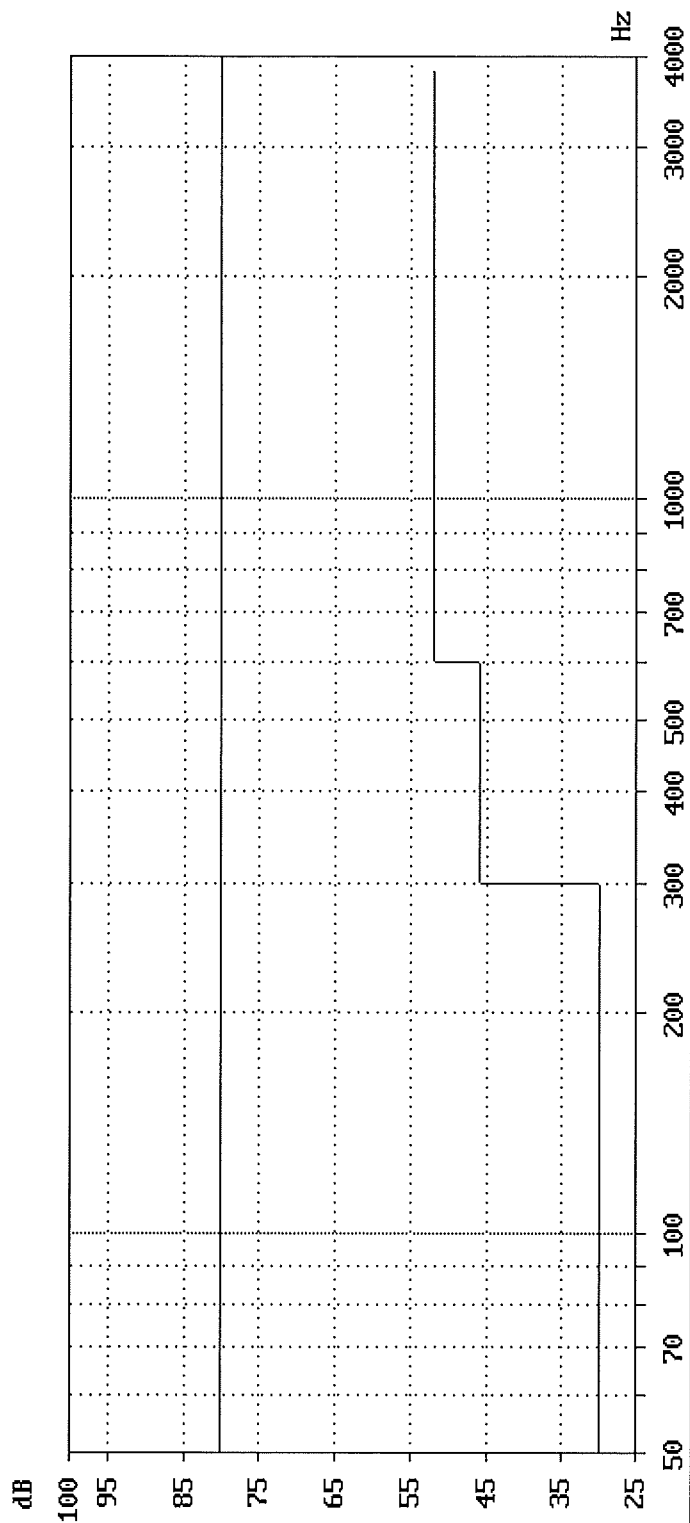


DE12 Output signal balance for better DTMF signalling

Model No. : M6535cidm	Feeding voltage : 50.0 V	Feeding Bridge: TBR21
TEUT : MFP	Current limitation: 80.0 mA	Mask violation: 0
Number of TEUT: 214054091	Polarity : Normal	Min. level Uo : -70.0 dBu
Manufacturer : KYOCERA DS Inc.	Feeding resistor : 2050.0 Ohm	Call setup : outgoing
Date : 28.10.14	Requirement : The curve of results shall be greater than the limits	
Time : 11:26.59	Data set : DE12 2050 N	

Remark : DTMF 3

Verdict : PASS

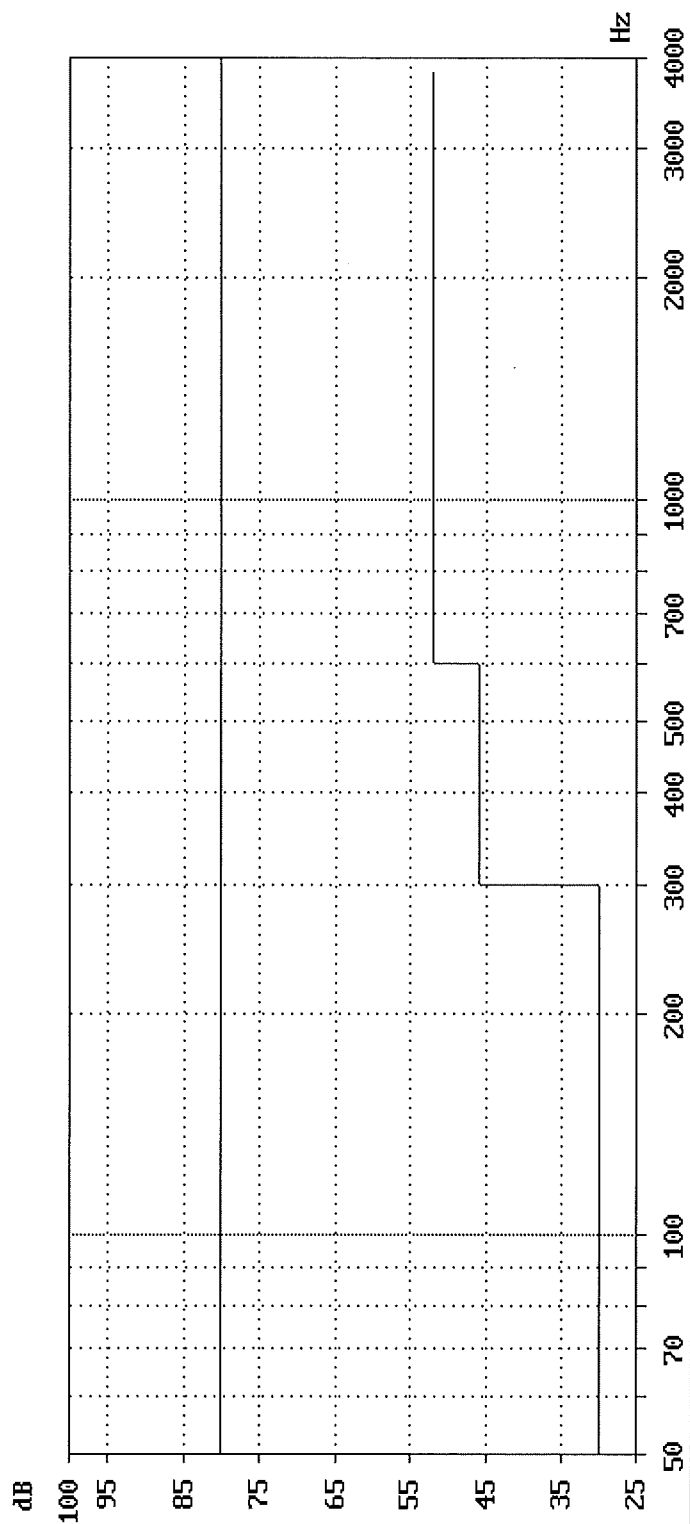


DE12 Output signal balance for better DTMF signalling

Model No. : M6535cidm	Feeding voltage : 50.0 V	Feeding Bridge: TBR21
TEUT : MFP	Current limitation: 80.0 mA	Mask violation: 0
Number of TEUT: 214054091	Polarity : Inverted	Min. level Uo : -70.0 dBu
Manufacturer : KYOCERA DS Inc.	Feeding resistor : 3200.0 Ohm	Call setup : outgoing
Date : 28.10.14	Requirement : The curve of results shall be greater than the limits	
Time : 11:30.22	Data set : DE12 3200 I	

Remark : DTMF 3

Verdict : PASS

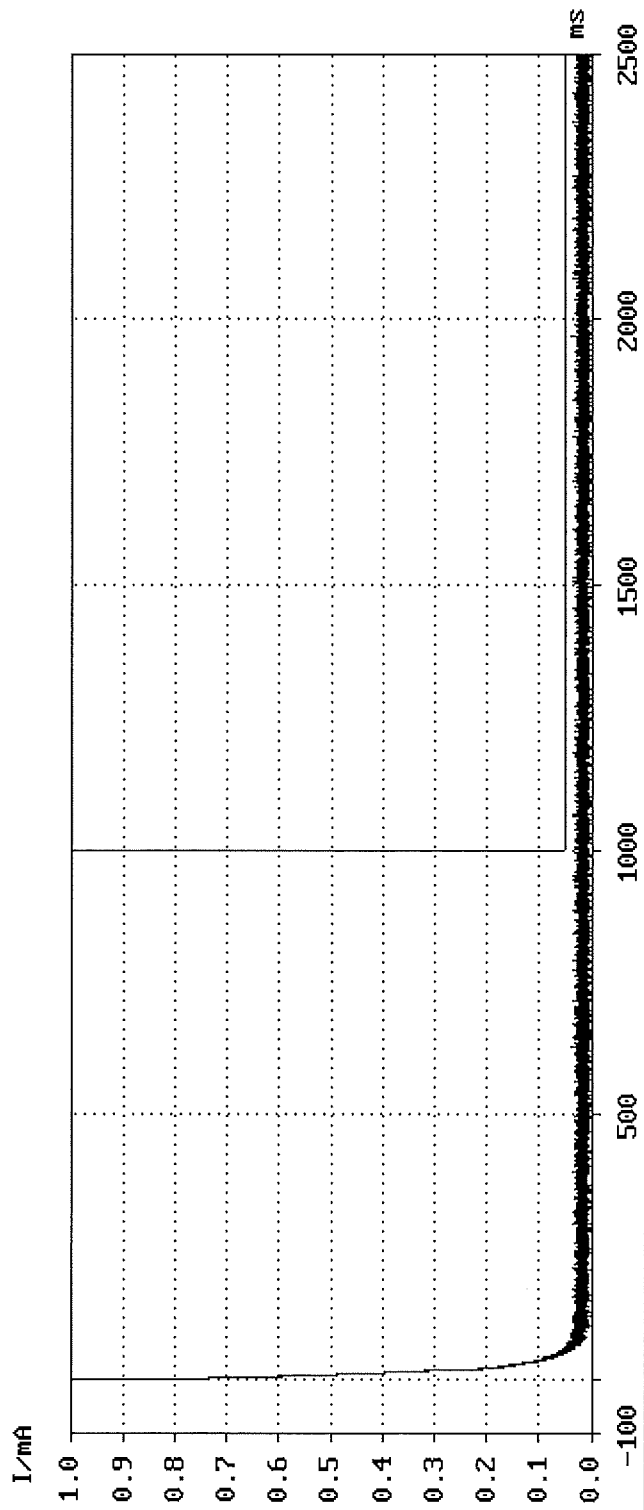


DE14 Improvement for transition from loop to quiescent

Model No. : M6535cidn
 TEUT : MFP
 Number of TEUT: 214054091
 Manufacturer : KYOCERA DS Inc.
 Date : 28.10.14
 Time : 11:31.44
 Remark : -
 Feeding voltage : 50.0 V
 Polarity : Normal
 Drop resistor : 2050.0 Ohm
 Requirement : The current shall drop not later than 1s
 Data set : DE14
 Trigger : OK
 I [mA]: 10.0
 Event : 1. neg. Edge
 Delay [ms]: - 100
 Sample [ms]: 0.2

Verdict : PASS

Transient times : 0.0 ms

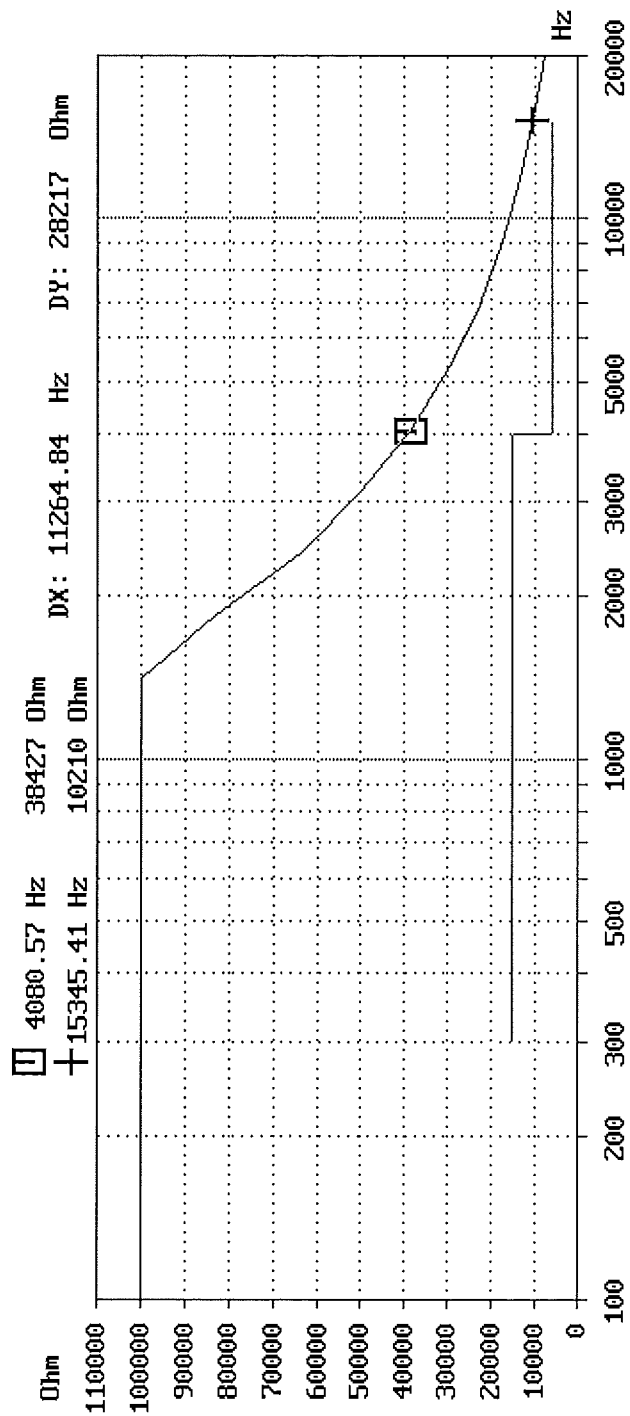


Modulus of impedance Z(f)

EG 201 121/P-03

Test Job	: 214054091	Current Limitation	: 100.0 mA
TEUT	: MFP	Feeding Voltage	: 50.0 V
Manufacturer	: KYOCERA DS Inc.	Dropping Resistor	: 2050.0 Ohm
Operator	: Y. Miura	Polarity	: Normal
Date	: 28.10.14		
Time	: 11:35.20	Level	: +3.5 dBV

Remark : -
Mask violations : 0
Verdict : PASS

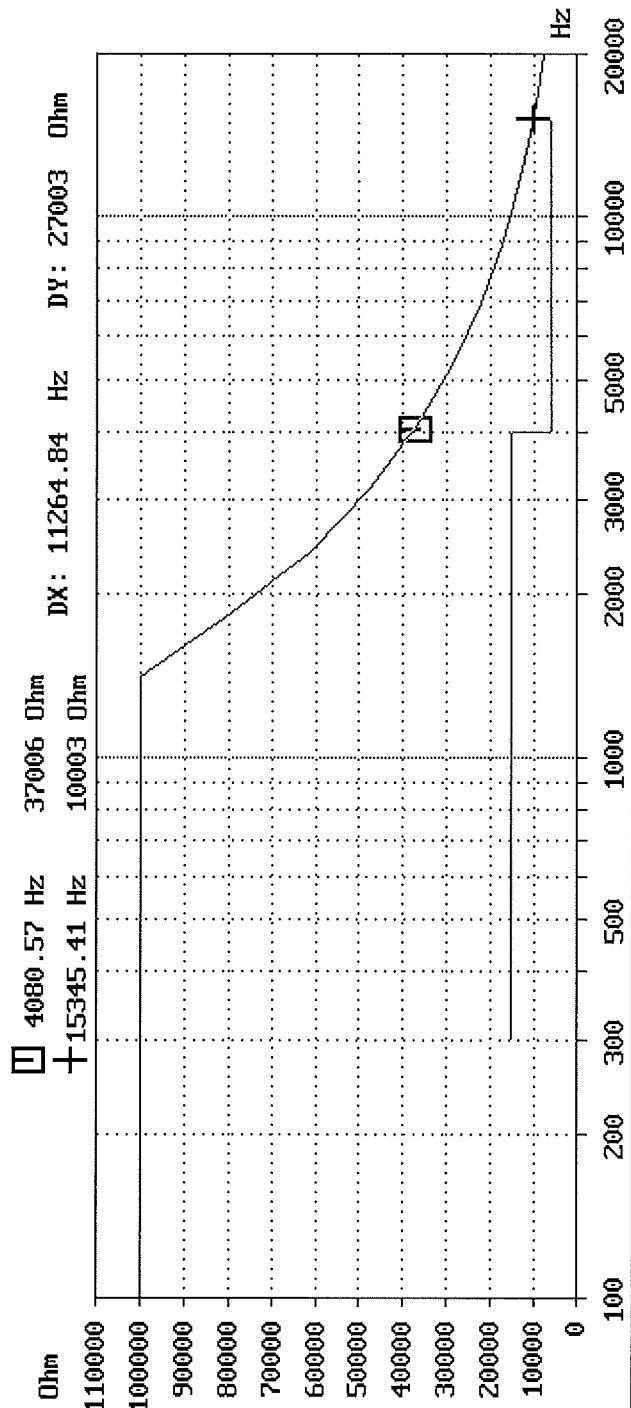


Modulus of impedance Z(f)

EG 201 121/P-03

Test Job	: 214054091	Current Limitation	: 100.0 mA
TEUT	: MFP	Feeding Voltage	: 50.0 V
Manufacturer	: KYOCERA DS Inc.	Dropping Resistor	: 2050.0 Ohm
Operator	: Y. Miura	Polarity	: Inverted
Date	: 28.10.14		
Time	: 11:37.29	Level	: +3.5 dBV

Remark : -
Mask violations : 0
Verdict : PASS



Prüfbericht - Nr.:
Test Report No.:

50016223 002

Anlage B
Appendix B

Produktbeschreibung
Description of Equipment

Refer to test report 50016223 001.

Prüfbericht - Nr.:
Test Report No.:

50016223 002

Anlage C
Appendix C

Schaltpläne
Circuit diagrams

Refer to test report 50016223 001.

Prüfbericht - Nr.:
Test Report No.:

50016223 002

Anlage D
Appendix D

Fotos
Photographs

Refer to test report 50016223 001.