



Test Report issued under  
the responsibility of:



**TEST REPORT**  
**IEC 60950-1**  
**Information technology equipment - Safety -**  
**Part 1: General requirements**

**Report Reference No** .....: E135780-A105-CB-1

Date of issue .....: 2018-12-03

Total number of pages .....: 19

**CB Testing Laboratory** .....: UL Japan, Inc.

Address .....: 4383-326 Asama-cho, Ise-shi, Mie, 516-0021, Japan

**Applicant's name** .....: OKI DATA CORP  
3-1 FUTABA-CHO

Address .....: TAKASAKI-SHI  
GUNMA-KEN 370-8585 JAPAN

**Test specification:**

Standard .....: IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013

Test procedure .....: CB Scheme

Non-standard test method .....: N/A

**Test Report Form No.** .....: IEC60950\_1F

Test Report Form originator .....: SGS Fimko Ltd

Master TRF .....: Dated 2014-02

**Copyright © 2014 Worldwide System for Conformity Testing and Certification of Electrotechnical Equipment and Components (IECEE), Geneva, Switzerland. All rights reserved.**

This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

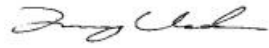

If this test Report is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

**This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.**

**General disclaimer**

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

<b>Test item description</b> .....	Label Printer
Trade Mark .....	None or OKI
Manufacturer .....	SAME AS APPLICANT
Model/Type reference .....	(for UL) N36200A, N36200B, N36201A, N36201B
	(for CB) N36200A, N36200B, N36200C, N36201A, N36201B, N36201C
Ratings .....	Models N36200A, N36201A Voltage: 110-127 Vac Frequency: 50/60 Hz Current: 10 A
	Models N36200B, N36201B Voltage: 220-240 Vac Frequency: 50/60 Hz Current: 5 A
	Models N36200C, N36201C Voltage: 100 Vac Frequency: 50/60 Hz Current: 10 A

<b>Testing procedure and testing location:</b>	
<input checked="" type="checkbox"/> <b>CB Testing Laboratory</b>	
Testing location / address .....	UL Japan, Inc. 4383-326 Asama-cho, Ise-shi, Mie, 516-0021, Japan
<input type="checkbox"/> <b>Associated CB Test Laboratory</b>	
Testing location / address .....	
Tested by (name + signature) .....	Masayo Ueda, Project Handler 
Approved by (name + signature).....	Tadao Nakayama, Reviewer 
<input type="checkbox"/> <b>Testing Procedure: TMP/CTF Stage 1</b>	
Testing location / address .....	
Tested by (name + signature) .....	
Approved by (name + signature).....	
<input type="checkbox"/> <b>Testing Procedure: WMT/CTF Stage 2</b>	
Testing location / address .....	
Tested by (name + signature) .....	
Witnessed by (name + signature) ...	
Approved by (name + signature).....	
<input type="checkbox"/> <b>Testing Procedure: SMT/CTF Stage 3 or 4</b>	
Testing location / address .....	
Tested by (name + signature) .....	
Approved by (name + signature).....	
Supervised by (name + signature) ..	
<input type="checkbox"/> <b>Testing Procedure: RMT</b>	
Testing location / address .....	
Tested by (name + signature) .....	
Approved by (name + signature).....	
Supervised by (name + signature) ..	

<b>List of Attachments</b>
National Differences (0 pages)
Enclosures (0 pages)
<b>Summary of Testing:</b>
No tests were conducted
<b>Summary of Compliance with National Differences:</b>
Countries outside the CB Scheme membership may also accept this report.

List of countries addressed: AT, AU, CA, CH, CN, DE, DK, ES, EU, FI, FR, GB, IE, IT, KR, NL, NO, NZ, PL, SE, SI, US

The product fulfills the requirements of: GB4943.1-2011, EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013

**Copy of Marking Plate** - Refer to Enclosure titled Marking Plate for copy.

<b>Test item particulars :</b>	
Equipment mobility .....	stationary
Connection to the mains .....	pluggable A
Operating condition .....	continuous
Access location .....	operator accessible
Over voltage category (OVC) .....	OVC II
Mains supply tolerance (%) or absolute mains supply values .....	+10% / -10%
Tested for IT power systems .....	Yes (for Norway National Differences)
IT testing, phase-phase voltage (V) .....	230 V
Class of equipment .....	Class I (earthed)
Considered current rating of protective device as part of the building installation (A) .....	20 A
Pollution degree (PD) .....	PD 2
IP protection class .....	IP X0
Altitude of operation (m) .....	<2500 m
Altitude of test laboratory (m) .....	approximately 10 to 20 m
Mass of equipment (kg) .....	approximately 60 kg (including Unwinder Unit)
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object .....	N / A
- test object does meet the requirement .....	P(Pass)
- test object does not meet the requirement .....	F(Fail)
<b>Testing:</b>	
Date(s) of receipt of test item .....	N/A
Date(s) of Performance of tests .....	N/A
<b>General remarks:</b>	
<p>"(see Enclosure #)" refers to additional information appended to the report.                  "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a point is used as the decimal separator.</p>	
<b>Manufacturer's Declaration per Sub Clause 4.2.5 of IEC 60950-1:</b>	
Yes	
<p>The application for obtaining a CB Test Certificate includes more than one factory and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided .....</p> <p>When differences exist, they shall be identified in the General Product Information section.</p>	
<b>Name and address of Factory(ies):</b>	OKI DATA CORPORATION, FUKUSHIMA FACTORY 1-1 TATSUTA, SHONO, FUKUSHIMA-SHI, FUKUSHIMA-KEN 960-2196 JAPAN  OKI DATA MANUFACTURING (THAILAND) CO., LTD. 1/39 MOO 5, TAMBOL KANHAM, AMPHUR U-THAI

AYUTTHAYA 13210 THAILAND

OKI ELECTRIC INDUSTRY (SHENZHEN) CO., LTD.  
NO. 6 BAIWANGXIN INDUSTRY AREA  
BAIMANG, XILI, NANSHAN DISTRICT, SHENZHEN 518055  
CHINA

## GENERAL PRODUCT INFORMATION:

### Report Summary

The original report was modified on 2018-12-12 to include the following changes/additions:

Administrative Amendment 1:

This Test Report is only valid in conjunction with the original CB Test Report Ref. No. E135780-A105-CB-1 (CB Test Certificate No. JP-20543-UL) to cover the following modifications:

1. Dimension of bottom openings in Unwinder Unit was corrected to 4.5 mm from 4.4 mm due to typo.
2. Component IDs of all fan motors were deleted in tables 1.5.1 and 5.3 per the manufacturer's request.

### Product Description

This product is a desk-top type Label Printer for general office use.

### Model Differences

Model N36201x is the basic model described in this Test Report.

"x" in model names replaces with A, B or C.

Model N36200x is identical to Model N36201x except for number of Toner Units (N36200x: 4, N36201x: 5).

Models N36200B and N36201B are identical to Models N36200A and N36201A respectively except for model designation, input ratings, and Heater Lamp in Fuser Unit.

Models N36200C and N36201C are identical to Models N36200A and N36201A respectively except for model designation, input ratings, and Heater Lamp in Fuser Unit.

### Additional Information

CB Certified Switching Power Supply (MinebeaMitsumi Inc., Model 45826701) used.

High Voltage Power Supply (Oki Data Corp., Model CNH) was evaluated in this Test Report.

(for CB)

In this Test Report, CENELEC mark license indicating compliance to EN standard was used to verify component compliance to IEC standard because the standards are technically equivalent.

UL Standards in table 1.5.1 have requirements that meet or exceed the relevant IEC requirements.

The artworks of Marking Plates attached in this test report may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

National Differences of Japan (J60950-1 (H29)) issued on 2017-11 were evaluated. See Enclosure Id. 7-03 for details.

National Differences of Australia/New Zealand (AS/NZS60950.1:2015) issued on 2017-06 were evaluated. See Enclosure Id. 7-04 for details.

**Technical Considerations**

- The product was submitted and evaluated for use at the maximum ambient temperature (T<sub>ma</sub>) permitted by the manufacturer's specification of: 30°C
- The means of connection to the mains supply is: Detachable power cord, Pluggable A
- The product is intended for use on the following power systems: IT (for Norway National Differences), TN
- The equipment disconnect device is considered to be: Appliance inlet
- The product was investigated to the following additional standards: EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 (which includes all European national differences, including those specified in this test report).
- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: Outputs of High Voltage Power Supply (except for CL(-) Output).
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): Operation Panel PWB (USB Input Connector and Ethernet Connector are signal circuits only.)
- LEDs provided in the product are considered low power devices: Yes (indicators)

Abbreviations used in the report:

- normal condition .....	N.C.	- single fault condition .....	S.F.C
- operational insulation .....	OP	- basic insulation .....	BI
- basic insulation between parts of opposite polarity:	BOP	- supplementary insulation .....	SI
- double insulation .....	DI	- reinforced insulation .....	RI

Indicate used abbreviations (if any)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
4.6.2	Construction of the bottom, dimensions (mm).....:	[Unwinder Unit] 35 openings of size 4.5 mm diameter (Only motor and wires insulated with PVC, TFE, PTFE, FEP, neoprene or polyimide located above the openings.)	-



IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: list of critical components					Pass
object/part or Description	manufacturer/ trademark	type/model	technical data	standard (Edition or year)	mark(s) of conformity <sup>1)</sup>	
Detachable Power Supply Cord Set (Optional) (for Models N36200B, N36201B)	--	--	--	--	--	
Cord	Leoni Kabel Holding GmbH or EA Cable Assemblies GmbH (Trademark: BizLink)	H05VV-F	3 x minimum 0.75 mm <sup>2</sup>	IEC/EN50525-2-11:2011	VDE	
Cord (Alternate)	Shenzhen Baohing Electric Wire & Cable Manufacture Co., Ltd.	H05VV-F	3 x minimum 0.75 mm <sup>2</sup>	IEC/EN50525-2-11:2011	VDE	
Plug	EA Cable Assemblies GmbH (Trademark: BizLink)	365	250V, 16A	DIN VDE 0620-2-1:2013-03	VDE	
Plug (Alternate)	Volex Asia Pte. Ltd.	M2511	250V, 16A	DIN VDE 0620-1:2010-02	VDE	
Coupler	EA Cable Assemblies GmbH (Trademark: BizLink)	730 or 735	250V, 10A	IEC/EN60320-1:2001+A1:2007	KEMA	
Coupler (Alternate)	Volex Asia Pte. Ltd.	V1625 or V1625A	250V, 10A	IEC60320-1(2nd Edition)+Am1, EN60320-1:2001+A1:2007	VDE, ASTA	
Detachable Power Supply Cord Set (Optional) (for Models N36200C, N36201C)	--	--	--	--	--	
Cord	Ta Hsing Industries Ltd., Shenzhen Baohing Electric	VCTF	3 x minimum 2.0 mm <sup>2</sup>	PSE	JET	

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

	Wire & Cable Manufacture Co., Ltd. or Shenzhen Tongyuan Industrial Co., Ltd.				
Plug	Volex Cable Assembly (Shenzhen) Co., Ltd., Volex Cable Assembly (Zhongshan) Co., Ltd. or PT Volex Indonesia	JS15T3	125V, 15A	PSE	JET
Coupler	Volex Cable Assembly (Shenzhen) Co., Ltd., Volex Cable Assembly (Zhongshan) Co., Ltd. or PT Volex Indonesia	V1625A	125V, minimum 10A	PSE	JET
Appliance Inlet	Rong Feng Industrial Co., Ltd.	SS-7B	250Vac, 10A	IEC/EN60320-1:2001+A1:2007	VDE
Appliance Inlet (Alternate)	Inalways Corp.	0707-1	250Vac, 10A	IEC/EN60320-1:2001	VDE
Primary Wiring	Interchangeable	Interchangeable	VW-1, minimum 300V, minimum 105°C.	UL758	UL
Main Protective Earthing (Protective Bonding Conductor)	Interchangeable	Interchangeable	Minimum 16AWG (1.0mm <sup>2</sup> ), colored green/yellow. One end soldered to earthing terminal of Appliance Inlet with tubing. Other end terminates in closed-loop, double crimp-type connector secured to metal chassis by minimum 3.5 mm sized screw	UL758	UL

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict

Switching Power Supply	MinebeaMitsumi Inc.	45826701	with lock-washer. (Input) 100-120/220-240Vac, 50/60Hz, 15/7A (DC Output) 24V, 9.5A; 5V, 6A; 5VS, 2A (AC Output) (main) 250W(average); (sub1) 250W(average); (sub2) 190W(average)	UL60950-1, IEC60950-1(2nd Edition)+Am1+Am2, EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	UL, Demko, CB Certified by UL Japan Inc.
AC Input Connector and AC Output Connector at Switching Power Supply	Japan Solderless Terminal Mfg. Co., Ltd.	VYH	300V, maximum 15A	IEC61984:2008, EN61984:2009	TUV
Relay Board	--	CNQ	Consists of the following:	--	--
Primary Connector (CN1)	Japan Solderless Terminal Mfg. Co., Ltd.	VYH	300V, maximum 15A	IEC61984:2008, EN61984:2009	TUV
Relay (RL1)	Fujitsu Component Ltd.	FTR-K1AK005T	(contact) 250Vac; (coil) 5Vdc	UL508, IEC/EN61810-1:2015	UL, VDE
Optocoupler (PH)	Sharp Corp.	PC123	Double Insulation. Isolation Voltage 5000V.	UL1577, IEC60950-1 (2nd Edition)+Am1+Am2, EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013, GB4943.1-2011	UL, SEMKO, CQC
Printed Wiring Board	Interchangeable	Interchangeable	Minimum V-1, minimum 105°C.	UL796	UL
--	--	--	--	--	--
Fuser Unit	--	--	Consists of the following:	--	--
Drawer Connector	Japan Solderless Terminal Mfg. Co., Ltd.	RWZ	Housing: RTI 85°C	EN61984:2009, IEC61984:2008	VDE
Halogen Lamp (Lower) (for Models N36200A, N36201A)	Ushio Inc.	QIRH 120-400 DOBM3	120V, 400W	--	--

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict

Halogen Lamp (Lower) (for Models N36200B, N36201B)	Ushio Inc.	QIRH 230-400 DOBM3	230V, 400W	--	--
Halogen Lamp (Lower) (for Models N36200C, N36201C)	Ushio Inc.	QIRH 100-400 DOBM3	100V, 400W	--	--
Halogen Lamp (Upper 1) (for Models N36200A, N36201A)	Ushio Inc.	QIRH 120-400 DOBM1	120V, 400W	--	--
Halogen Lamp (Upper 1) (for Models N36200B, N36201B)	Ushio Inc.	QIRH 230-400 DOBM1	230V, 400W	--	--
Halogen Lamp (Upper 1) (for Models N36200C, N36201C)	Ushio Inc.	QIRH 100-400 DOBM1	100V, 400W	--	--
Halogen Lamp (Upper 2) (for Models N36200A, N36201A)	Ushio Inc.	QIRH 120-400 DOBM2	120V, 400W	--	--
Halogen Lamp (Upper 2) (for Models N36200B, N36201B)	Ushio Inc.	QIRH 230-400 DOBM2	230V, 400W	--	--
Halogen Lamp (Upper 2) (for Models N36200C, N36201C)	Ushio Inc.	QIRH 100-400 DOBM2	100V, 400W	--	--
Thermostat 1	Wako Electronics Co., Ltd.	CS-7TA-35	250V, 17A, 160°C	UL873, IEC/EN60730-2-9:2002+A1+A2+A11+A12	UL, TUV
Thermostat 2	Wako Electronics Co., Ltd.	CS-7TA-35	250V, 17A, 170°C	UL873, IEC/EN60730-2-9:2002+A1+A2+A11+A12	UL, TUV
Thermostat 3	Wako	CS-7TA-35	250V, 17A,	UL873,	UL, TUV

IEC 60950-1					
Clause	Requirement + Test		Result - Remark		Verdict

	Electronics Co., Ltd.		180°C	IEC/EN60730-2-9:2002+A1+A2+A11+A12	
Thermistor	Shibaura Electronics Co., Ltd.	RD-01-D1	220kohm at 150°C.	--	--
Thermistor	Ishizuka Electronics Corp.	364FL	7kohm at 180°C.	--	--
Thermopile	Nippon Ceramic Co., Ltd.	TSUP-A2A01S-AU-33-300	3.3V, 3mA	--	--
Primary Wiring	Interchangeable	Interchangeable	VW-1, minimum 300V, minimum 105°C. Insulation minimum 0.4 mm thick.	UL758	UL
Front Case, Rear Case (Fire/Electrical)	Daicel Polymer Ltd.	B5746	5V, RTI 140°C, minimum 2.0 mm thick. (5V at 2.0 mm thick.)	UL94	UL
High Voltage Power Supply (HVPS)	--	CNH	Consists of the following:	--	--
HV Transformers (T1, T2)	IMCC	OK-1602I	Bobbin: Minimum V-2.	--	--
HV Blocks (T3, T5, T7, T8, T9)	Wuxi Toyo Electric Co., Ltd.	KTM01	Bobbins: Minimum V-2. Case: Minimum V-2. Compound: Minimum V-2. Capacitors (C1, C2): Minimum 6kV, 330pF. Resistor (R1): 100Mohm, 1W. Resistor (R2): 30Mohm, 1W. Diodes (D1, D2, D3): Minimum 8kV, 5mA.	--	--
HV Block (T4)	Wuxi Toyo Electric Co., Ltd.	KTM02	Bobbins: Minimum V-2. Case: Minimum V-2. Compound: Minimum V-2. Capacitors (C1, C2): Minimum	--	--

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

			6kV, 220pF. Resistor (R1): 100Mohm, 1.2W. Resistor (R2): 200Mohm, 1.2W. Resistors (R3, R4): 20Mohm, 1.2W. Resistor (R5, R6): 2Mohm, 1/8W. Diodes (D1, D2, D4): 12kV, 5mA. Diode (D3): 6kV, 5mA. Zener Diode (ZD1): 36V.		
HV Block (T6)	Wuxi Toyo Electric Co., Ltd.	KTM03	Bobbins: Minimum V-2. Case: Minimum V-2. Compound: Minimum V-2. Capacitors (C1, C2): Minimum 6kV, 220pF. Resistor (R1): 10Mohm, 0.5W. Resistor (R2): 50Mohm, 1W. Diodes (D1, D2): Minimum 8kV, 5mA.	--	--
HV Transformers (T10-T20)	Aspal (H.K.) Co., Ltd.	AS-1362	Bobbin: Minimum V-2.	--	--
--	--	--	--	--	--
Interlock Switch	Hirose Electric Co., Ltd.	DE2L	30Vdc, 5A Contact Gap: 1.0mm (Evaluated for 100,000 cycles.)	UL1054, IEC61058-1(3rd Edition)+Am1+A m2, EN61058- 1:2002+A2:2008	UL, VDE
Hard Disk Drive	Hitachi Global System Technologies Japan, Ltd.	TT5SAEnnn (n: 0-9)	5Vdc, 700mA.	UL60950-1, IEC/EN60950- 1:2006+A11:200 9+A1:2010+A12: 2011+A2:2013	UL, TUV
Hard Disk Drive (Alternate)	Interchangeable	Interchangeable	5Vdc, maximum 700mA.	UL60950-1, IEC/EN60950- 1:2006+A11:200 9+A1:2010+A12:	UL, National Certification Bodies registered in

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

				2011+A2:2013	IECEE
Coin Battery	Interchangeable	CR2032	Non-rechargeable. Lithium manganese dioxide battery. 3Vdc, (maximum abnormal charging current) 10mA. Reverse current protected by series circuit of Resistor (R185), 1kohm and Diode (D36).	UL1642	UL
Fuses (F22, F23)	Kamaya Electric Co., Ltd.	FMC16	32Vdc, 1A (LPS limiting component for Operation Panel PWB.)	UL248-1, UL248-14	UL
Belt Motor	Minebea Motor Manufacturing Corp.	DNQ06K08L13F	(Class B) DC Brushless Motor. 24Vdc, 1.0A.	--	--
Fuser Motor	Nidec Corp.	48M035Fxxx	(Class B) DC Brushless Motor. 24Vdc, 1.5A.	--	--
ID Motor	Nidec Corp.	48M035E035	(Class B) DC Brushless Motor. 24Vdc, 3.8A.	--	--
Color Registration Shutter Motor	Okii Micro Engineering Co., Ltd.	KBL42LCB740D	(Class E) Stepper Motor. 2.6Vdc, 3.5ohm.	--	--
2nd Transfer Roller Separate Motor, Exit Motor	Okii Micro Engineering Co., Ltd.	KFL49LCB841D	(Class E) Stepper Motor. 2.6Vdc, 3.4ohm.	--	--
Feed Motor	Okii Micro Engineering Co., Ltd.	KTL40MCB681C * (*: May be followed by additional suffixes.)	(Class B) Stepper Motor. 2.24Vdc, 2.8ohm.	--	--
Motor Driver Cooling Fan Motor, Fuser Cooling Fan Motor, ID Intake Fan Motors 1-5, Fuser Unit	NMB Technologies Corp.	2410SB-05W-S79-C02 or 06025SS-24Q-AL	(Class E) 24Vdc, maximum 0.17A, minimum 0.70CMM.	IEC60950-1(2nd Edition)+Am1+Am2, EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	VDE

IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict

Cooling Exhaust Fan Motor					
CPU Fan Motor	Nidec Corp.	D05F-24PM13B(EX)	(Class A) 24Vdc, maximum 0.1A, minimum 0.07CMM. Frame and Blades: Minimum V-2.	--	--
Lower Voltage Power Unit Fan Motor	Nidec Corp.	U60T24MS7A7-53J103	(Class E) 24Vdc, maximum 0.143A, minimum 0.69CMM. Frame and Blades: Minimum V-2.	--	--
Fuser Cooling Intake Fan Motor	Nidec Corp.	U80T24MUA7-53J102	(Class E) 24Vdc, maximum 0.099A, minimum 0.99CMM. Frame and Blades: Minimum V-2.	--	--
Printed Wiring Boards	Interchangeable	Interchangeable	Minimum V-1, minimum 105°C.	UL796	UL
Nameplate Label	Mikado Kinzoku Co., Ltd.	MS	Tested per sub-clause 1.7.11.	--	--, --
Enclosures	--	--	--	--	--
Top Cover, Top Plate, IN Plate, Fan Panel Plate, OUT Plate	Interchangeable	Interchangeable	Steel.	--	--
Front Cover (Fire/Electrical)	Interchangeable	Interchangeable	Steel, minimum 0.8 mm thick.	--	--
Rear Cover (Fire/Electrical/Mechanical)	Interchangeable	Interchangeable	Steel, minimum 0.8 mm thick.	--	--
Exit Cover (Mechanical)	Daicel Polymer Ltd.	S76K1	5V, RTI 60°C, minimum 2.2 mm thick. (5VB at 2.0 mm thick.)	UL94	UL
Exit Cover (Mechanical) (Alternate)	Teijin Ltd., Resin and Plastic	TN-7260	5V, RTI 60°C, minimum 2.2 mm thick. (5VA at 1.5 mm thick.)	UL94	UL
Sub Out Cover (Fire/Electrical)	Daicel Polymer Ltd.	S76K1	5V, RTI 60°C, minimum 2.0	UL94	UL



IEC 60950-1					
Clause	Requirement + Test			Result - Remark	Verdict

			mm thick. (5VB at 2.0 mm thick.)		
Sub Out Cover (Fire/Electrical) (Alternate)	Teijin Ltd., Resin and Plastic	TN-7260	5V, RTI 60°C, minimum 2.0 mm thick. (5VA at 1.5 mm thick.)	UL94	UL
IN Guide Cover	Daicel Polymer Ltd.	S76K1	5V, minimum 2.0 mm thick. (5VB at 2.0 mm thick.)	UL94	UL
IN Guide Cover (Alternate)	Interchangeable	Interchangeable	Minimum V-2 at color and thickness used.	UL94	UL
Handle Cover, Operation Panel Cover, Operation Panel Frame, Sub Operation Panel Frame	Daicel Polymer Ltd.	S76K1	5V, RTI 60°C, minimum 2.0 mm thick. (V-0 at 1.5 mm thick.)	UL94	UL
Operation Panel Frame (Alternate)	Interchangeable	Interchangeable	Minimum HB at color and thickness used.	UL94	UL
Insulation Sheet	AGC Polycarbonate Co., Ltd.	CFR230B	V-0, RTI 130°C, minimum 0.5 mm thick. (V-0 at 0.23 mm thick.) Provides basic insulation between Switching Power Supply and earthed chassis.	UL94	UL
Insulation Sheet	Sabic Japan L L C	FR700	V-0, RTI 130°C, minimum 0.5 mm thick. (V-0 at 0.38 mm thick.) Provides basic insulation between High Voltage Power Supply and earthed Front Cover.	UL94	UL
Printer Chassis	Interchangeable	Interchangeable	Steel.	--	--
Unwinder Unit	--	--	Consists of the following:	--	--
Roll Paper Feed Motor	Okii Micro Engineering Co., Ltd.	KTL40MCB681C * (*: May be followed by additional	(Class B) Stepper Motor. 2.24Vdc, 2.8ohm.	--	--

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

		suffixes.)			
Roll Paper Rewind Motor	Oki Micro Engineering Co., Ltd.	KFL49LCB841D	(Class E) Stepper Motor. 2.6Vdc, 3.4ohm.	--	--
Cutter Motor	MinebeaMitsumi Inc.	23KM-K348CEVA1635	(Class B) Stepper Motor. 2.25Vdc, 0.9ohm.	--	--
Roll Paper Feed Fan	Nidec Corp.	D05F-24PM13B(EX)	(Class A) 24Vdc, maximum 0.1A, minimum 0.07CMM. Frame and Blades: Minimum V-2.	--	--
Clutch	Tenryu Marusawa Co., Ltd.	TMC-8VS-15	24Vdc, 0.104A.	--	--
Base Plate, Rear Cover (Fire)	Interchangeable	Interchangeable	Steel.	--	--
Right Plate, Front Cover, Arm Cover, Slide Hanger Plate, Hanger Base Plate, Feeder Bracket	Interchangeable	Interchangeable	Steel.	--	--
Upper Pilot Cover, Upper Cover, Upper Guide, Arm Cable Cover, Lower Guide, Holder	Daicel Polymer Ltd.	S76K1	V-0, RTI 60°C, minimum 1.5 mm thick. (V-0 at 1.5 mm thick.)	UL94	UL

Supplementary information:

<sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The CBTL has verified the component information.

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

5.3	<b>TABLE: Fault conditions tests</b>					Pass	
	Ambient temperature (°C)					See below.	---
	Power source for EUT: Manufacturer, model/type, output rating					(see appended table 1.5.1)	---
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation	
CPU Fan Motor, Roll Paper Feed Fan	Rotor Locked	24 dc	7 hours	--	--	Type D05F-24PM13B(EX) Temperature stabilized. Motor Body: 42°C Ambient: 23°C NC, NT	
Lower Voltage Power Unit Fan Motor	Rotor Locked	24 dc	7 hours	--	--	Type U60T24MS7A7-53J103 Temperature stabilized. Motor Body: 50°C Ambient: 27°C NC, NT	
Fuser Cooling Intake Fan Motor	Rotor Locked	24 dc	7 hours	--	--	Type U80T24MUA7-53J102 Temperature stabilized. Motor Body: 34°C Ambient: 25°C NC, NT	
supplementary information:							