

UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2007-03-27 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2007-03 (Information Technology Equipment - Safety - Part 1: General Requirements)
Certification Type:	Component Recognition
CCN:	NWQQ2, NWQQ8 (Information Technology Equipment Including Electrical Business Equipment)
Product:	LCD Panel (LED backlight)
Model:	G104SNZZ, where Z may be any alphanumeric character or blank.
Rating:	12 Vdc/ 0.32 A (Optional)
Applicant Name and Address:	AU OPTRONICS CORP 1 LI-HSIN RD 2 HSINCHU SCIENCE PARK HSINCHU 300 TAIWAN

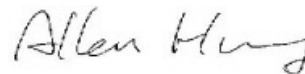
This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of Underwriters Laboratories Inc. ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Reviewed by: Elicia M. Sosa
Underwriters Laboratories Inc.



Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
 - iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

(TFT) LCD Panel was assembled with LED drive board secured on metal chassis, and supplied by SELV.

Model Differences

N/A

Technical Considerations

- Equipment mobility : for building-in
- Connection to the mains : No direct connection
- Operating condition : continuous
- Access location : determined in end-product
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : No direct connection
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class III (supplied by SELV)
- Considered current rating (A) : N/A

- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : up to 2,000 m
- Altitude of test laboratory (m) : up to 2,000 m
- Mass of equipment (kg) : < 18
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 50 °C

Engineering Conditions of Acceptability

For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. When installed in an end-product, consideration must be given to the following:

- The following secondary output circuits are SELV: Output of LED Drive Board
- The power supply terminals and/or connectors are: Suitable for factory wiring only
- The investigated Pollution Degree is: 2
- The following end-product enclosures are required: Fire
- To be determined in end-product. The maximum temperature (Tmax) for Panel Surface should not exceed 80 °C.

Additional Information

N/A

Markings and instructions

Clause Title	Marking or Instruction Details
Power rating - Ratings	Ratings (voltage, frequency/dc, current)
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number

Model	Component	Material	Test	Sample(s)	Test Specifics
N/A					

TABLE: List of Critical Components

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
01. Panel	AU Optronics Corp.	G104SNZZ, where Z may be any alphanumeric character or blank.	TFT-LCD Type, 10.4'	--	--
02. Chassis	Various	Various	Steel Metal or Aluminum	--	--
03. Printed Wiring Board (PWB)	Various	Various	Minimum V-1, 105°C.	ZPMV2	UL
04. Internal Wiring (Optional)	Various	Various	FEP, PTFE, PVC, TFE, neoprene, polyimide or VW-1; minimum 30V, 105°C.	AVLV2	UL
05. Connectors and Receptacles (Secondary ELV/SELV circuits)	Various	Various	--	ECBT2, RTRT2	UL
05a. Connectors and Receptacles (Secondary ELV/SELV circuits) (Alternate)	--	Metal/Plastic	Copper Alloy Pins housed in Bodies, minimum V-2.	QMFZ2	UL
06. Flexible PWB (Optional)	Various	Various	Minimum V-1 or VTM-1, 80°C for component mounted. Minimum V-2 or VTM-2, 80°C for no component mounted.	ZPKX2 or ZPMV2 or QMFZ2 or QMTS2	UL
07. Label	Various	Various	Minimum 60°C.	PGDQ2 or PGJ12	UL
08. Cover Film (Optional)	Various	Various	Flame Retardant. Minimum 80°C.	OANZ2	UL
08a. Cover Film (Alternate) (Optional)	Various	Various	Minimum V-2 or VTM-2, 80°C.	QMFZ2	UL
08b. Cover Film (Alternate) (Optional)	Various	Various	Minimum V-2 or VTM-2, 80°C.	OCDT2	UL
09. LED Drive Board	AU Optronics Corp.	10G03-C00	12Vdc, 0.32A.	--	--
09a. LED Drive Board (Alternate)	AU Optronics Corp.	10G02-C02	12Vdc, 0.32A.	--	--

Enclosures

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Photographs	3-01	Front View with LED Drive Board (Type 10G03-C00)
Photographs	3-02	Rear View with LED Drive Board (Type 10G3-C00) with Cover Film
Photographs	3-03	Rear View with LED Drive Board (Type 10G3-C00) without Cover Film
Photographs	3-04	LED Drive Board (Type 10G03-C00) Top View
Photographs	3-05	LED Drive Board (Type 10G03-C00) Bottom View
Photographs	3-06	Front View with LED Drive Board (Type 10G02-C02)
Photographs	3-07	Rear View with LED Drive Board (Type 10G02-C02)
Photographs	3-08	Rear View with LED Drive Board (Type 10G02-C02) - 1
Photographs	3-09	LED Drive Board (Type 10G02-C02) Top View
Photographs	3-10	LED Drive Board (Type 10G02-C02) Bottom View
Diagrams		
Schematics + PWB		
Manuals		
Miscellaneous		