



## NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

06/25/2012

Dfi Inc  
Mr. Tommy Tang  
100 Huanhe St  
Xizhi District  
New Taipei 221, Tw

Our Reference: File E131107, Vol. 4 Project Number 12ME04889  
Your Reference: 1131205122  
Project Scope: UL/CUL FOR MOTHERBOARD, MB330-XXXXXXXX (X=0-9, A-Z, blank or any character for market differences), FULL INVESTIGATION

Dear Mr. Tommy Tang:

UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark only at authorized factories under UL's Follow-Up Service Program.

To provide the manufacturer with the intended authorization to use the UL Mark, the addressee must send a copy of this notice to each manufacturing location currently authorized in File E131107, Vol. 4.

This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date of this letter.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn. UL may elect to withdraw use of the UL Mark if the Applicant or Manufacturer fails to comply with UL's requirements including ongoing compliance of the product, under UL's Follow-Up Service.

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

The contents of this Letter are intended solely for the use of UL and the Applicant. The opinions and findings of UL represent its judgment given with due consideration to the necessary limitations of practical operation in accordance with UL's objectives and purposes. UL shall not otherwise be responsible for the use of or reliance upon the contents of this letter by anyone. UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages, arising out of or in connection with the use or reliance upon the contents of this letter to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification mark(s) by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL.

Very truly yours,

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PENG

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File E131107  
Project 12ME04889

June 25, 2012

REPORT

On

COMPONENT - INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS  
EQUIPMENT

DFI INC  
100 HUAN-HO ST HSI-CHIH TAIPEI, 221 TAIWAN

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## DESCRIPTION

## PRODUCT COVERED:

USR/CNR Component - Mother Board, Model MB330-XXXXXXXX (X=0-9, A-Z, blank or any character for market difference).

## ELECTRICAL RATING:

No rating is declared.

## TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Special Considerations - The following items are considerations that were used when evaluating this product.

USR/CNR indicates investigation to the U.S. and Canadian (Bi-National) Standard for Safety for Information Technology Equipment - Safety - Part 1: General Requirements, CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12, UL 60950-1, second Edition, date March 27, 2007 including revision on December 19, 2011.

The component was submitted and tested for a maximum manufacturer's recommended ambient (Tma) of 60 degree C.

The equipment is: for building in; Class III (supplied by SELV).

Limited Power Source: The following circuits have been evaluated as a limited power source:

Location	Circuit (Schematic) Designation
USB Ports	CN4A, CN5A, CN6, J15, J16
HDMI Port	CN2
DVI Port	CN1
PS2 Ports	CN6
COM Ports	CN7, J12
LAN Ports	CN4B, CN5B
Audio/Line-in/ Line-out Ports	CN3

## Conditions of Acceptability:

For use only in complete equipment where the acceptability of the combination has been determined by Underwriters Laboratories Inc. When installed in the end product, consideration shall be given to the following:

1. These components have been judged on the basis of the required spacing in the Standard for Safety of Information Technology Equipment, CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12, UL 60950-1, Second Edition, date March 27, 2007 including revision on December 19, 2011 (Information Technology Equipment - Safety - Part 1: General Requirements).
2. All secondary output circuits are SELV and are not hazardous energy levels.
3. The terminals and connectors are suitable for factory wiring only.
4. A suitable fire and mechanical enclosure shall be provided.
5. These components have been evaluated for installation in ordinary locations (Pollution Degree 2, normal residential, light industrial or commercial locations). Other applications may require an investigation to determine the suitability.
6. These components do not employ any Telecommunication Network Voltage (TNV) Circuits.
7. Expansion slots included on the mother boards are intended to be housed within the fire enclosure, and have not been evaluated as user accessible connectors. If any cards engaged in these slots provide user accessible connectors, they must be evaluated in the end product.
8. The need for the lithium battery cautionary statement/markings shall be determined in the end product investigation.
9. The Heating Test shall be considered in the end product.

CONSTRUCTION DETAILS:

See Section General for additional details.

Electrical Ratings - No rating is declared.

Printed Wiring Board - See Section General for details.

## MODEL MB330-XXXXXXXX - FIGS. 1, 2 AND 3

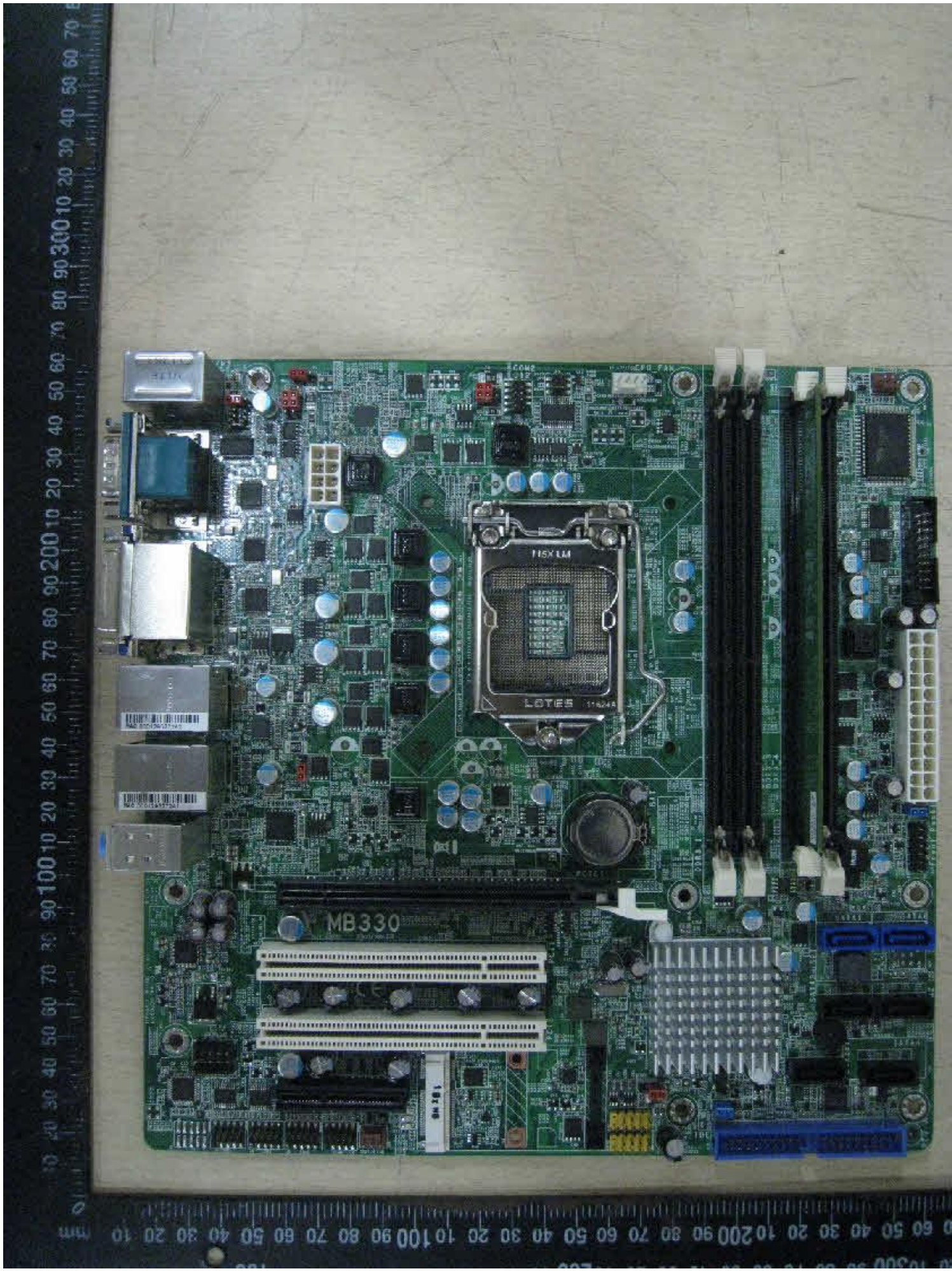
General - Figures 1, 2 and 3 show overall view of the Mother Board.

1. RTC Battery - (BBCV2), Type CR2032 or CR2354 or CR2450, maximum abnormal charging current is 10 mA or 30 mA. Protection circuitry consists of two reverse current blocking Diodes (D16) connected in series with one Resistor (R561), rated 1.0 k $\Omega$ .
2. Poly Switches (F1, F2, F7, F9, F14) - (XGPU2), 6 Vdc or 8 Vdc, hold current 1.1 A, trip current 1.8 A or 2.2 A, Tmoa (minimum 85 degree C), CA1 (maximum 125 degree C), CA2, CA3, provided for PS2 Port (CN6), COM1 Port (CN7\_5V), COM2 Port (J12\_5V), HDMI Port (CN2), DVI Port (CN1A, CN1B).
3. Poly Switches (F3) - (XGPU2), 6 Vdc or 8 Vdc, hold current 1.5 A, trip current 3 A, Tmoa (minimum 85 degree C), CA1 (maximum 125 degree C), CA2, CA3, provided for USB8/9 Port (CN6).
4. Poly Switches (F6, F8) - (XGPU2), 16 Vdc, hold current 1.1 A, trip current 2.2 or 1.95 A, Tmoa (minimum 85 degree C), CA1 (maximum 125 degree C), CA2, CA3, provided for COM1 Port (CN7\_12V), COM2 (J12\_12V).
5. Poly Switches (F4, F5, F10) - (XGPU2), 6 Vdc or 8 Vdc, hold current 2.6 A, trip current 5.2 A, Tmoa (minimum 85 degree C), CA1 (maximum 110 degree C), CA2, CA3, provided for USB0/1/2/3/10/11/12/13 Port (CN4A, CN5A, J15, J16).
6. Heat Sink (HS1 for U56) - Aluminum Alloy. See ILL.1 for dimension details.
7. Connectors and Receptacles - In low voltage secondary circuitry (SELV), (RTRT2) or (ECBT2) or (DUXR2).

Alternate - Same as above, except for Copper Alloy Pins housed in Bodies of (QMFZ2), minimum V-2.

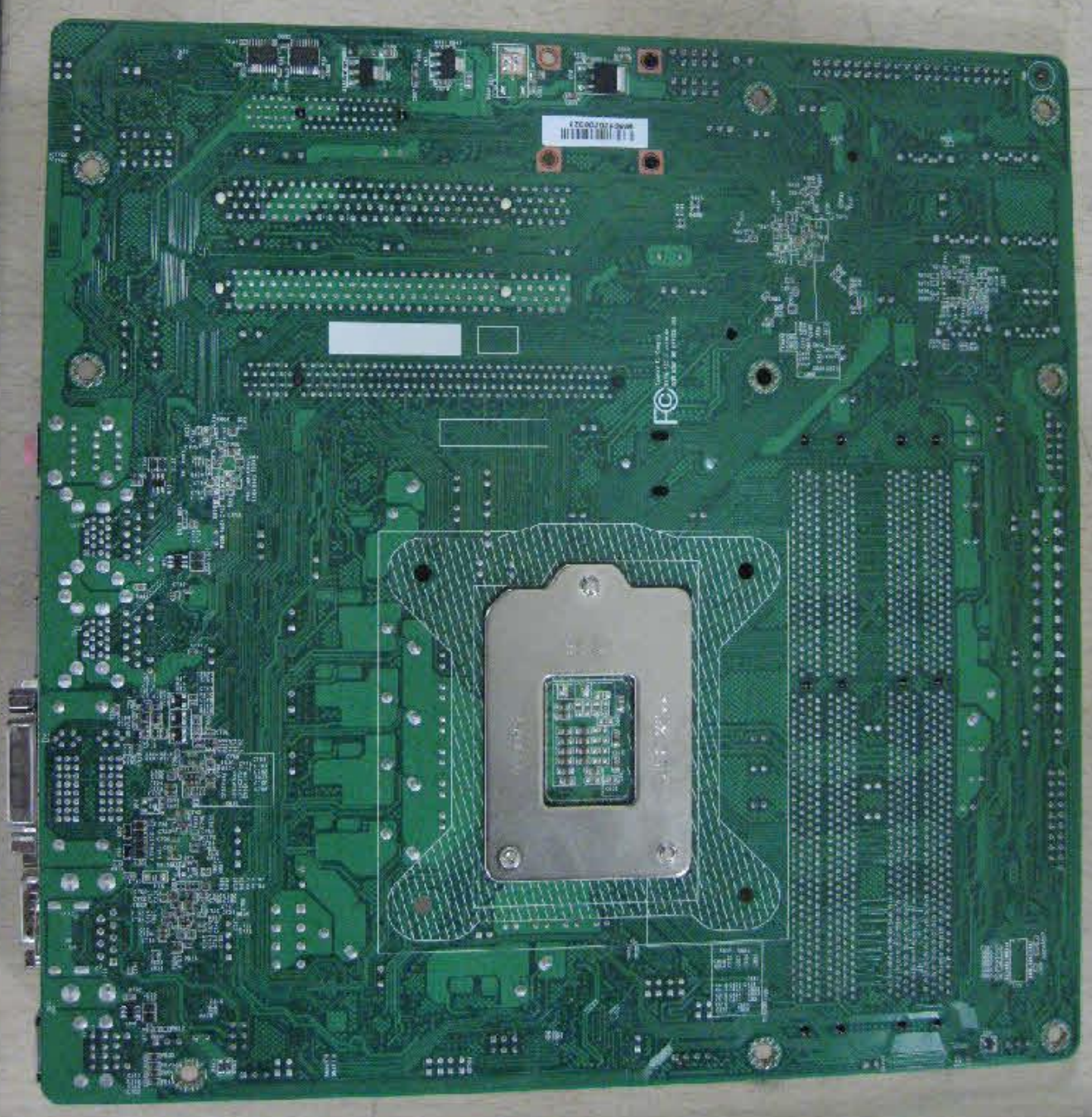
8. Marking Plate Label - (PGDQ2) or (PGJI2), Suitable for use on each type of surface to which applied, rated for maximum surface temperature specified, or 60°C if not specified.

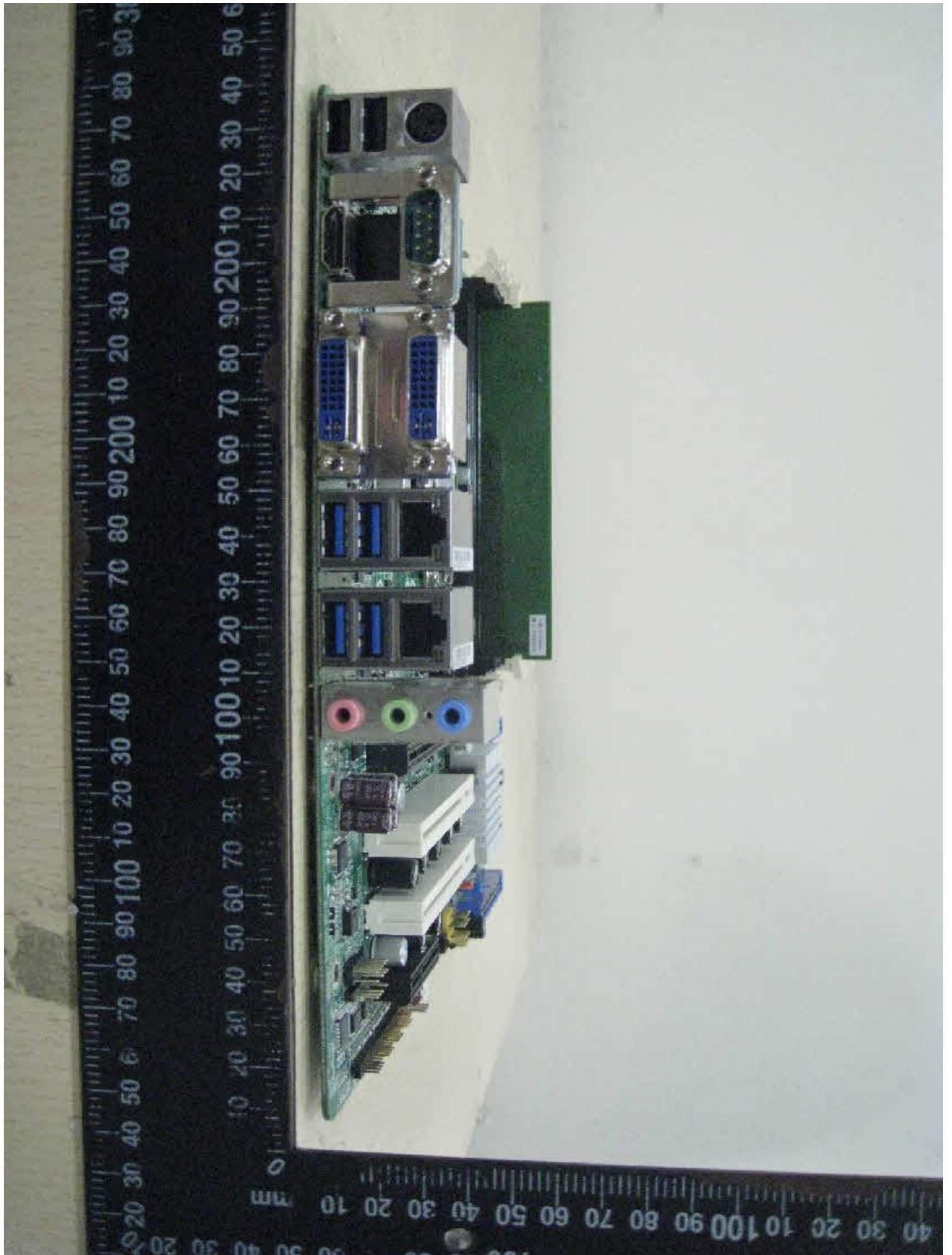
Alternate - Ink-stamped, silk-screened, molded-in.



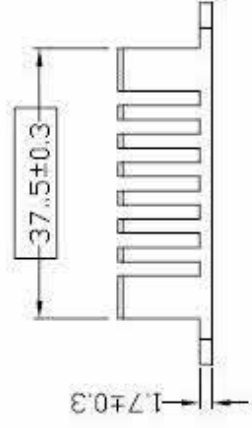
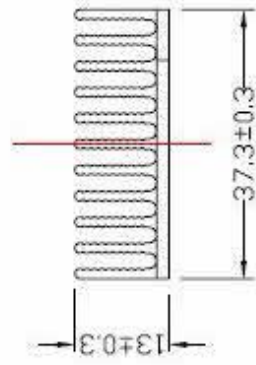
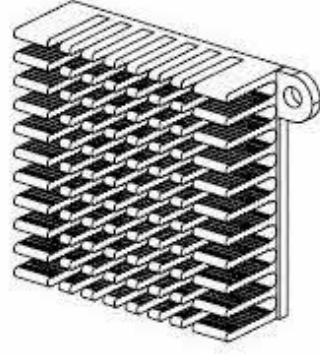
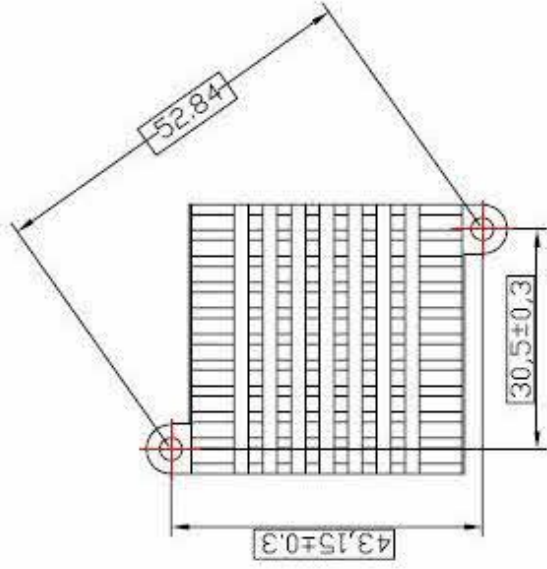


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# 陽極圖



Notes:

- 为重点检验尺寸
- 未标注尺寸按B公差检验

TOL ±	V	
RANGE	A	B
0~6	0.10	0.15
6~30	0.15	0.20
30~80	0.20	0.25
80~180	0.25	0.30
180~315	0.30	0.50
315~800	0.35	0.80
ANG. TOL ±	$0^{\circ} \sim 180^{\circ} 0.3^{\circ}$	