



Cooler Master Co., Ltd.

TEL: +86 (752)2677320

FAX : +86 (752)2677350

www.coolermaster.com.cn

Product Data Sheets

Customer : _____

Part No. : _____ CPU Cooler

CoolerMaster Model No. : _____ S2N-PLMHS-I5-GP

Edition: _____ A1

Issued Date: _____ 2009/08/14

Revision History :			
Date of Release	Revision No.	Description	
Customer		Cooler Master	
Approved by		Approved by	Checked by
		Doneca_Yang	Doneca_Yang
Date:		Date:2009/08/14	Date:2009/08/14
			Drafted by
			Afeng_yan
			Date:2009/08/14

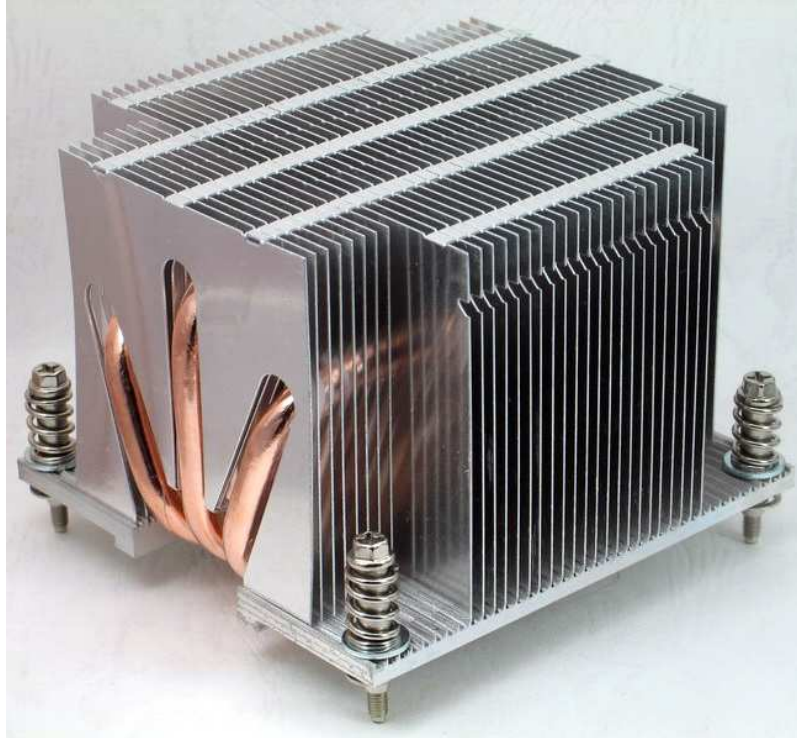


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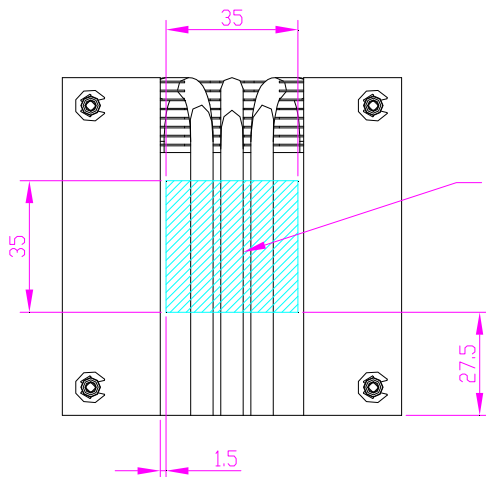
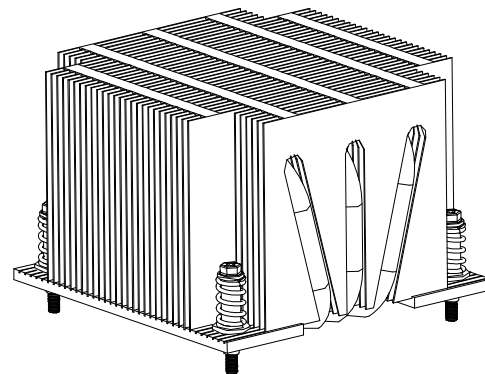
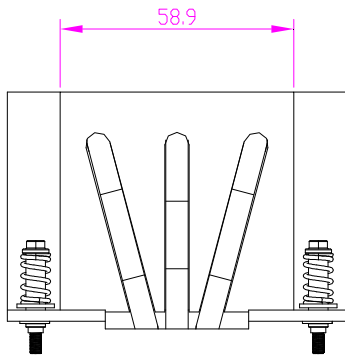
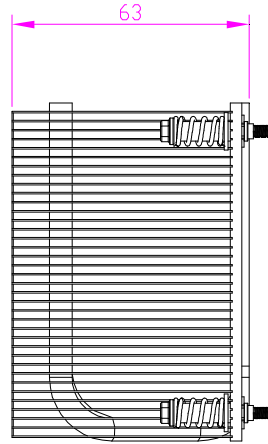
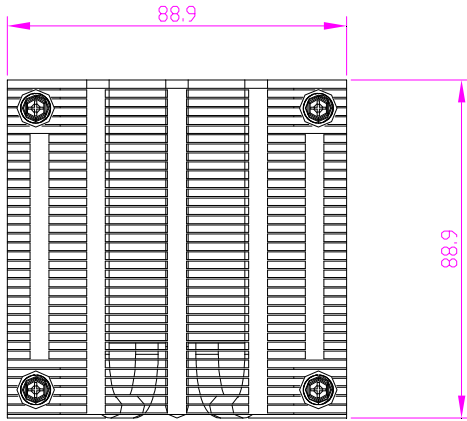


1. Whole Photo





2. Whole Set Dimension



Shin-Etsu X-23-7783 35*35
The thickness of thermal grease is 0.15-0.2mm

General Dimension Tolerances (Unit : mm)

0	—	30	± 0.2
31	—	60	± 0.3
61	—	100	± 0.4
101 and Over			± 0.5
Angles			± 2°



3. Specification

3.01 Heat Sink

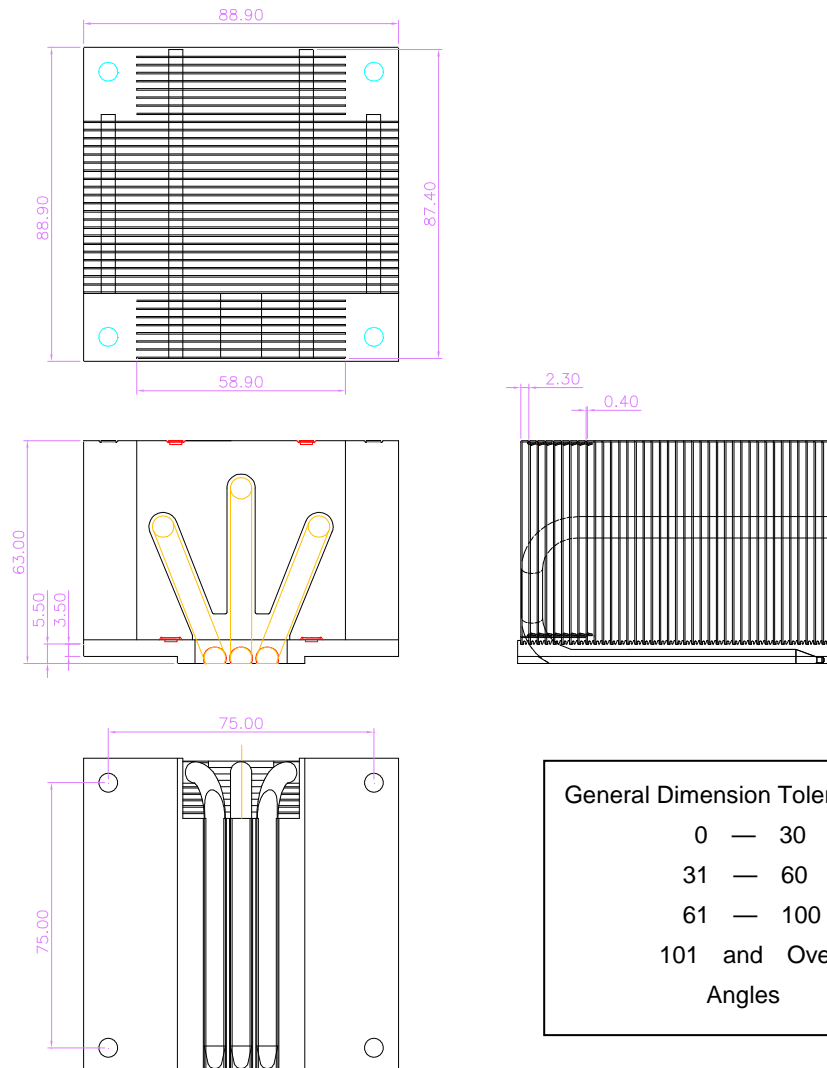
Material: AL 6063 T5

Mechanical Characteristics:

Alloy No.	Tensile strength	Hardness test	Extension
Al 6063	27.23(kgf/mm ²)	68~75HV	31.12 %

Chemistry Ingredient & Temper Designation:

Value	Si	Fe	Cu	Mn	Cr	Mg	Zn	Ti	Flatness
SPECIFIED VALUES	0.4258	0.2037	0.0032	0.0059	0.0028	0.5147	0.0000	0.00263	<0.1 mm



General Dimension Tolerances (Unit : mm)		
0 — 30	± 0.2	
31 — 60	± 0.3	
61 — 100	± 0.4	
101 and Over	± 0.5	
Angles	± 2°	



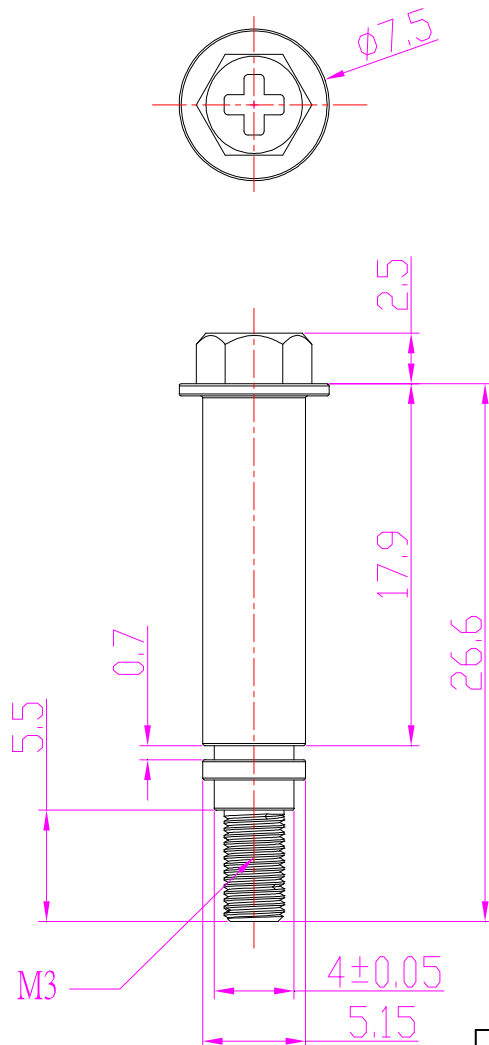
3.02 Screw

Material : AISI 1018

Finished : nickel plated

Chemistry Ingredient Characteristics : (%)

Value	C	MN	P	S	SI
SPECIFIED VALUES	0.08	0.6	0.3	0.35	0.1



General Dimension Tolerances (Unit : mm)

0 — 30 ± 0.2

31 — 60 ± 0.3

61 — 100 ± 0.4

101 and Over ± 0.5

Angles ± 2°



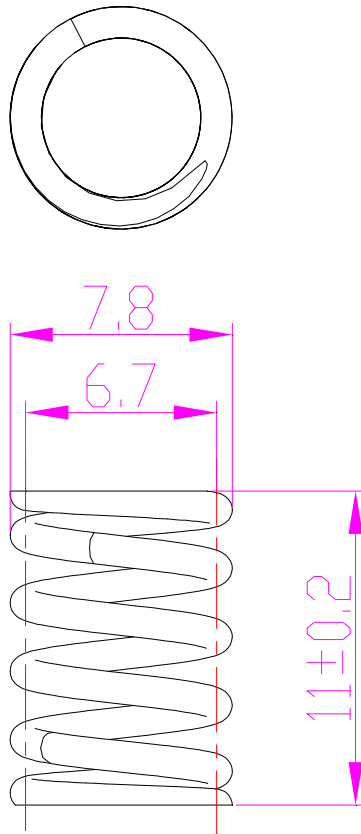
3.03 Spring

Material :SPW-B

Finished : Nickel Plated

Chemistry Ingredient Characteristics : (%)

Value	C	MN	P	S	Cr	NI	SI
SPECIFIED VALUES	0.07	1.32	0.25	0.003	10.08	8.02	0.47



General Dimension Tolerances (Unit : mm)

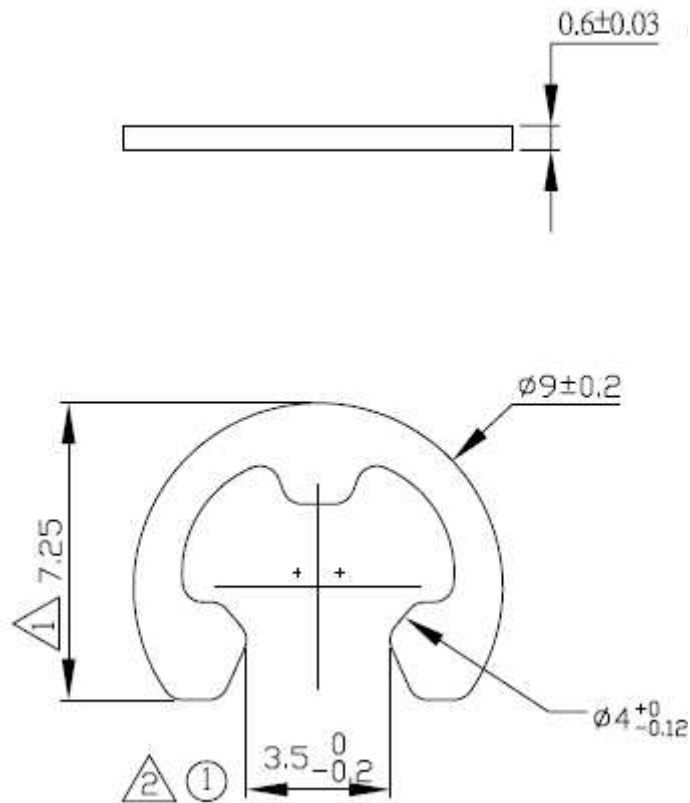
0	— 30	± 0.2
31	— 60	± 0.3
61	— 100	± 0.4
101 and Over		± 0.5
Angles		± 2°



3.04 E-ring

Material:SK5

Finished: Nickel Plated



General Dimension Tolerances (Unit : mm)

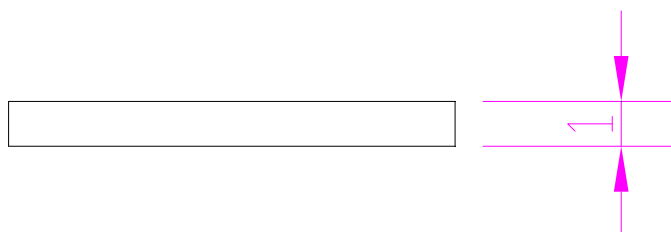
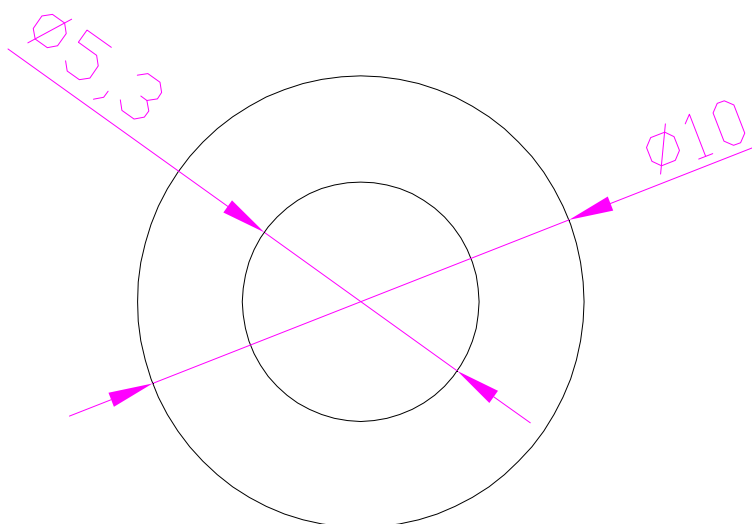
0	—	30	± 0.2
31	—	60	± 0.3
61	—	100	± 0.4
101	and Over		± 0.5
Angles			$\pm 2^\circ$



3.05 Washer

Material:SK5

Finished: Nickel Plated



General Dimension Tolerances (Unit : mm)

0	—	30	± 0.2
31	—	60	± 0.3
61	—	100	± 0.4
101	and	Over	± 0.5
		Angles	± 2°



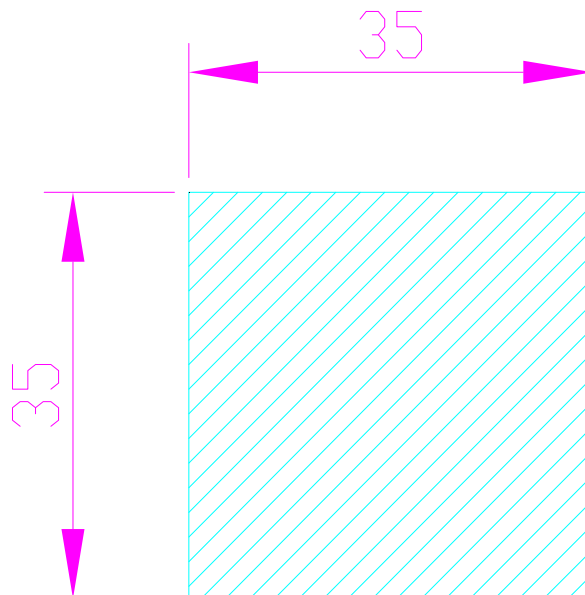
3.06 Interface

Grease: Shin-Etsu X-23-7783

Color : Gray

Size:35×35MM

Thickness: 0.1~0.2mm



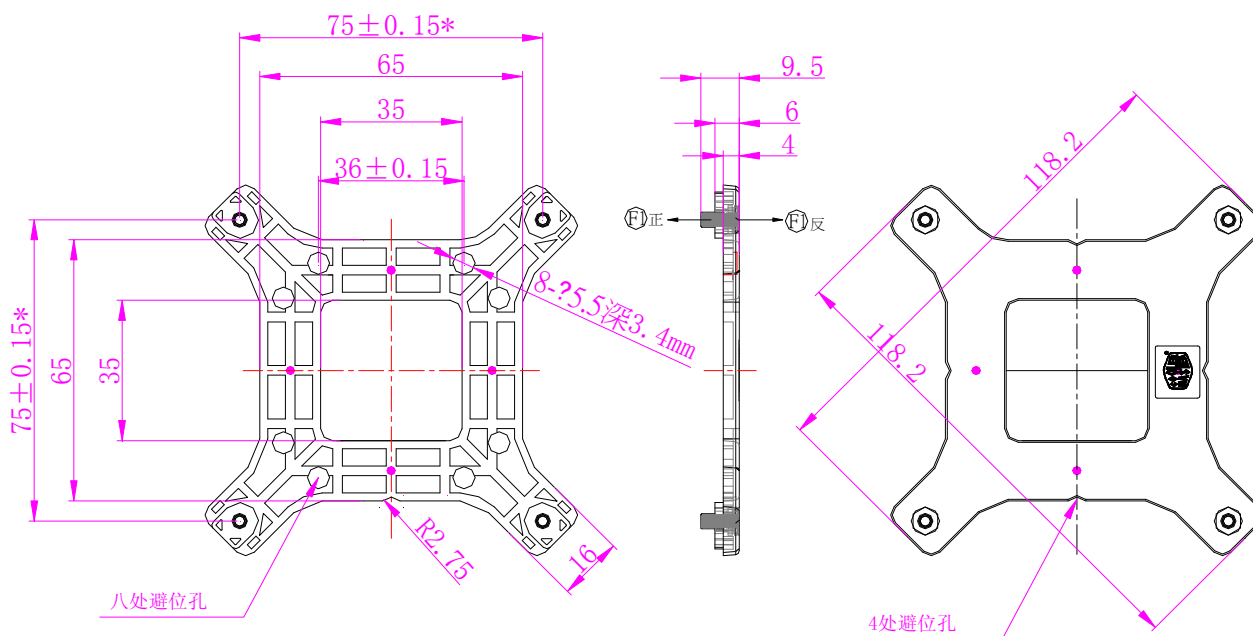


3.07. Back Plate

Material: PPS Black+40%G.F UL94V0

Chemistry Ingredient :

C	Mn	P	S	Si
0.52	0.72	0.015	0.004	0.21



General Dimension Tolerances (Unit : mm)		
0	— 30	± 0.2
31	— 60	± 0.3
61	— 100	± 0.4
101	and Over	± 0.5
	Angles	$\pm 2^\circ$



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4.0 CE



SPORTON LAB.



Certificate No: EC621413

CERTIFICATE

EQUIPMENT : Cooler

MODEL NO. : 'XXXXXXXXXXXXXXXXX (X=0-9, a-z, blank or "-")

APPLICANT : Cooler Master Co., Ltd.

9F, No. 786, Chung-Cheng Rd., Chung-Ho City,
Taipei Hsien, 235 Taiwan, R.O.C.



THEREBY

CERTIFY THAT:

THE MEASUREMENTS SHOWN IN THIS TEST REPORT WERE MADE IN ACCORDANCE WITH THE PROCEDURES GIVEN IN **EUROPEAN COUNCIL DIRECTIVE 89/336/EEC**. THE EQUIPMENT WAS **PASSED** THE TEST PERFORMED ACCORDING TO **European Standard EN 55022:1998/A1:2000/A2:2003 Class B, EN 61000-3-2:2000, EN 61000-3-3:1995/A1:2001 and EN 55024:1998/A1:2001/A2:2003 (IEC 61000-4-2:1995/A2:2000, IEC 61000-4-3:1995/A2:2002, IEC 61000-4-4:1995/A2:2001, IEC 61000-4-5:1995/A1:2000, IEC 61000-4-6:1996/A1:2000, IEC 61000-4-8:1993/A1:2000, IEC 61000-4-11:1994/A1:2000)**. THE TEST WAS CARRIED OUT ON **Feb. 16, 2006** AT **SPORTON INTERNATIONAL INC. LAB.**

Jones Chan
Supervisor

Feb. 24. 2006



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5.0 UL



UL International, L.L.C.
Taiwan Branch

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UL International, L.L.C. Taiwan Branch

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電話: 886-2-2896-7790

傳真: 886-2-2891-7644

http://www.ul.com.tw

NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

May 12, 2006

MS. Juyu Chen
Cooler Master Co Ltd
9th FL 786 Chung-Cheng Rd
Chung-Ho, Taipei Hsien 235
Taiwan

Fax number: 02-32340051
E-mail: juyu-chen@coolermaster.com.tw

Reference: File E189887 Project 06CA23884 P.O. Number U621412
Product: UL/CUL Investigation For COOLER FAN, employing the revise model designation A1A2-A3A4A5-A6A7A8A9, B1B2-B3B4B5-B6B7B8B9, C1C2-C3C4C5-C6C7C8C9 to A1A2-A3A4A5-A6A7A8A9-A10A11, B1B2-B3B4B5-B6B7B8B9-B10B11, C1C2-C3C4C5-C6C7C8C9-C10C11; and alternate model designation X1X2-X3X4X5-X6X7X8X9-X10X11.

Dear Ms. Chen,

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc.

UL's investigation of your product has been completed under the above project number and the subject 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 Recognized Marking and/or Recognized Component Mark only at the factory under UL's Follow-Up Service Program to the subject product, which is constructed as described below:

Similar to products covered in the UL Follow-Up Services Procedure, File E189887, Volume X1, Report Reference No, E189887-A1-UL-1, except for employing the revise model designation A1A2-A3A4A5-A6A7A8A9, B1B2-B3B4B5-B6B7B8B9, C1C2-C3C4C5-C6C7C8C9 to A1A2-A3A4A5-A6A7A8A9-A10A11, B1B2-B3B4B5-B6B7B8B9-B10B11, C1C2-C3C4C5-C6C7C8C9-C10C11; and alternate model designation X1X2-X3X4X5-X6X7X8X9-X10X11

To provide the manufacturer with the intended authorization to use the UL Mark, the addressee must send a copy of this Notice and all attached material to each manufacturing location as currently authorized in File E189887, Volume X1.

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 to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

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.

Sincerely,

Jay Hsu

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Reviewed by:

Wisely Lin

Wisely Lin
Associate Project Engineer
UL International L.L.C., Taiwan Branch
E-mail: kenny.lin@tw.ul.com

An independent organization working for a safer world with integrity, precision and knowledge.

