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2. Product BOM

NO.	PART NO	PART NAME	QTY
1	18R0154-ASM	ASM	1
1.1	271004440-GP	AL BASE	1
1.2	280009370-GP	AL FIN	1
1.3	260009500-GP2	PIPE 01	2
1.4	260009510-GP2	PIPE 02	1
1.5	500006290-GP3	Sn42/Bi58	
1.6	18R0154-LABEL	CT LABEL	1
2	150033740-GP	SCREW	4
3	450010850-GP	SPRING	4
4	300011850-GP2	WASHER	4
5	300010740-GP3	O-RING	4
6	520000820-GP3	GREASE	
7	358063090-GP	LABEL	1



3. Product Photo





5. Specification & Drawing ASM

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REV	DESCRIPTION	Section	Engineer/Checked	Date
2				

技术要求:

1. 基材材質: AL1100(料厚0.3mm)
2. 焊接后扣片不能超出鋁底,無虛焊,漏焊;
3. 表面不允許濺污,和異色,參照DGD標準;
4. 後處理:鍍錫;
5. 鹽霧測試6小時;
6. 焊接時扣片扣點方向與熱管頭方向一致;
7. 標註 X 的尺寸為重點檢驗尺寸;
8. 滿足RoHS2011/65/EU 6項要求

序號	名稱	材質	數量	備註
5	LABEL	PET	1	抗氧化
4	熱管-2	CU20	2	抗氧化
3	熱管-1	CU20	1	抗氧化
2	扣片	AL1100	1	鍍錫
1	鋁底	AL6063 T5	1	鍍錫

General tolerance:

Range	0-10	10-30	30-50	50-100	100-
±mm	±0.1	±0.15	±0.2	±0.3	±0.4
±mm	±0.1	±0.2	±0.25	±0.3	±0.4
±mm	±0.1	±0.15	±0.2	±0.3	±0.4
±mm	±0.1	±0.2	±0.25	±0.3	±0.4
±mm	±0.1	±0.15	±0.2	±0.3	±0.4

DATE: 2018/02/06 ENGINEER: 吳世明 CHECK: 劉洗生 DATE: 2018/02/06 APPR: 劉洗生 DATE: 2018/02/06

Scale: 1:1 Sheet: 1/1 Size: A4

COOLER MASTER
CO., LTD.

ECC-00843-05-GP
18R0154-ASM-01-T1

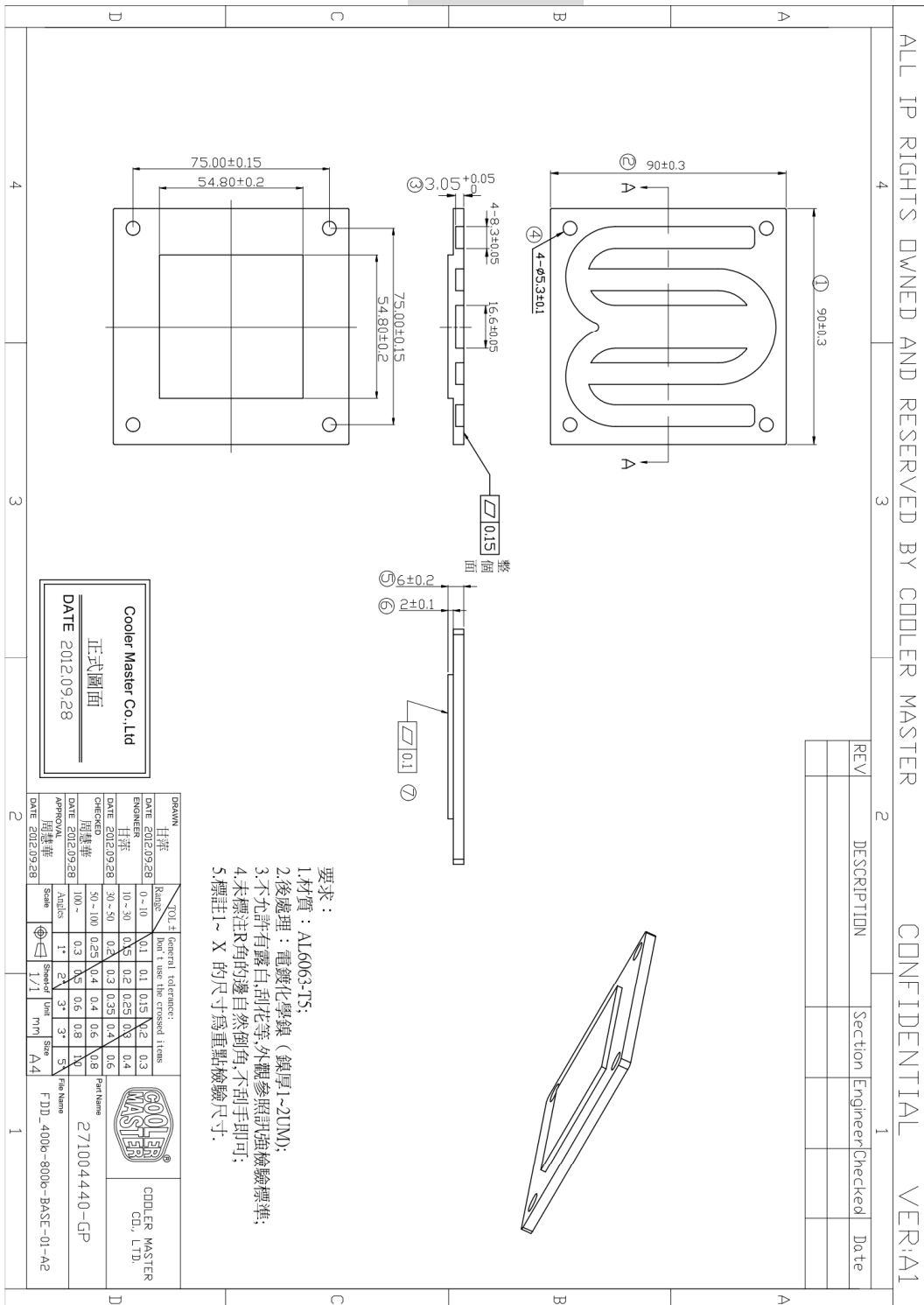
Cooler Master Co., Ltd

臨時圖面

DATE: 2018.02.06

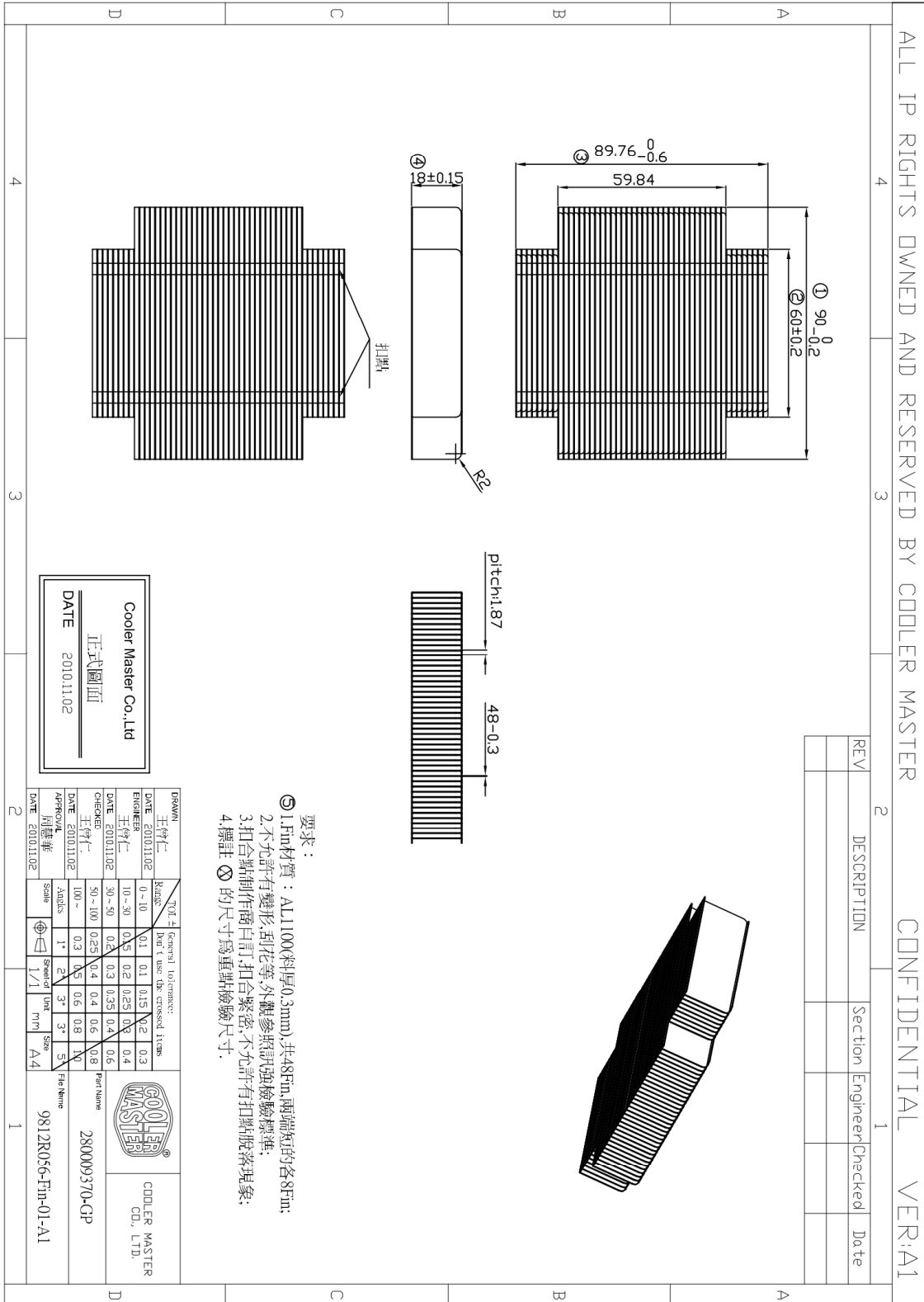


AL BASE





AL FIN



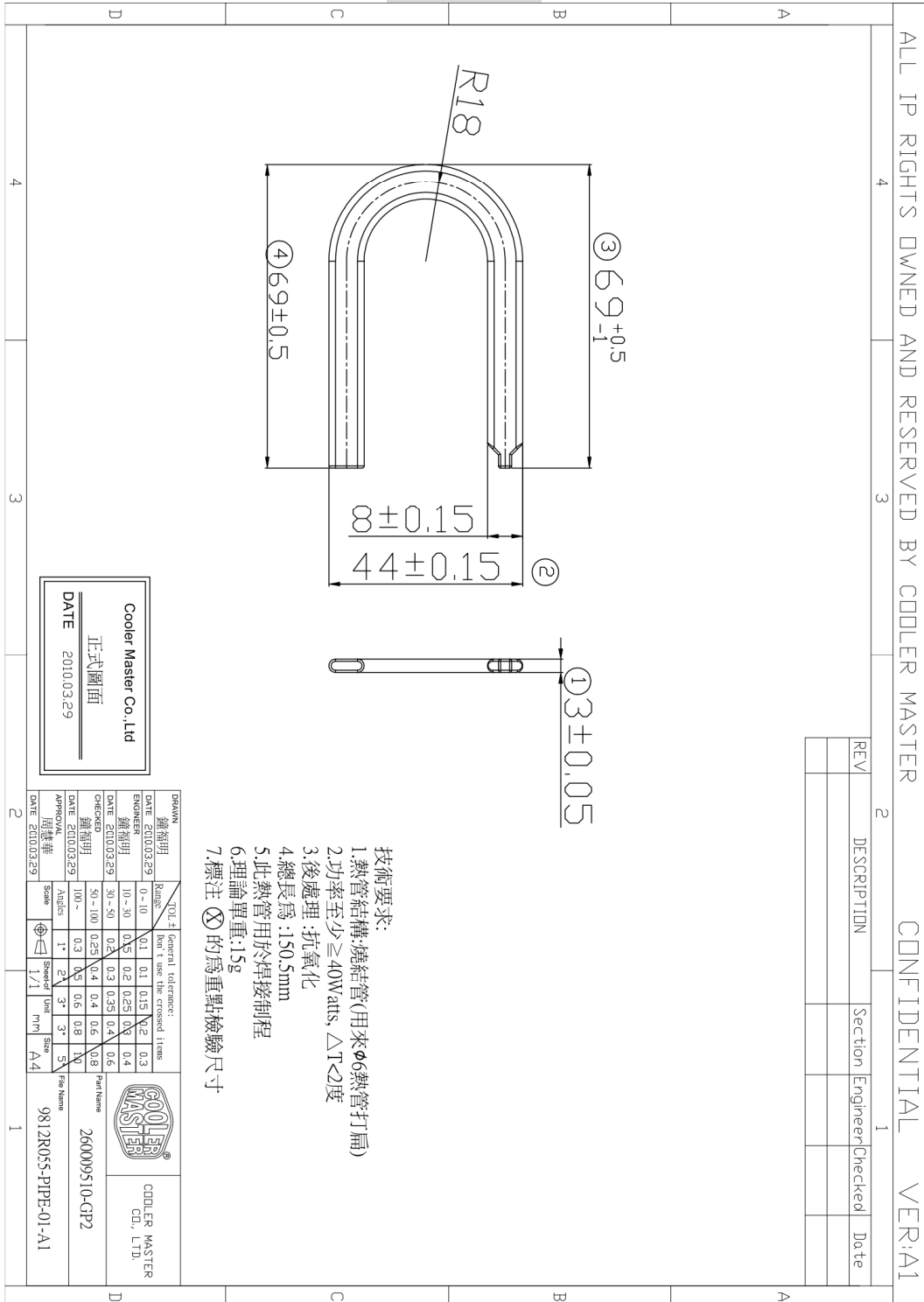
Cooler Master Co., Ltd
正式圖面
DATE 2010.11.02

DRAWN	DATE	ENGINEER	CHECKER	DATE	APPROVAL	Scale	Special	Unit	Sheet	Part Name	File Name
王竹仁	2010.11.02	王竹仁	王竹仁	2010.11.02	王竹仁	1:1	1/1	mm	A4	280009370A-GP	9812R056-Fin-01-A1

- 要求：
1. Fin材質：AL1100(料厚0.3mm)共48Fin,兩端短段各8Fin;
 2. 不允許有變形,刮花等外觀參照測試強檢驗標準;
 3. 扣合點制作需自訂扣合緊密,不允許有扣合脫落現象;
 4. 標註⊗的尺寸為重點檢驗尺寸.



PIPE 02



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REV	DESCRIPTION	Section	Engineer/Checked	Date
2				

- 技術要求:
- 1.熱管結構:燒結管(用來 $\phi 6$ 熱管打扁)
 - 2.功率至少 $\geq 40Watts$, $\Delta T < 2$ 度
 - 3.後處理:抗氧化
 - 4.總長為:150.5mm
 - 5.此熱管用於焊接制程
 - 6.理論單重:1.5g
 - 7.標注 ⊗ 的為重點檢驗尺寸

Cooler Master Co., Ltd
正式圖面
DATE 2010.03.29

DRAWN	範圍	TOL ±	General tolerance:
DATE 2010.03.29	0-10	0.1	0.1 0.15 0.2 0.3
ENGINEER	10-30	0.5	0.2 0.25 0.3 0.4
範圍	30-50	0.2	0.3 0.35 0.4 0.6
DATE 2010.03.29	50-100	0.25	0.4 0.4 0.6 0.8
檢核	100-~	0.3	0.5 0.6 0.8 1.0
DATE 2010.03.29	100-~	0.3	0.5 0.6 0.8 1.0
APPROVAL	1°	2°	3°
同書華	Scale	1/1	Unit
DATE 2010.03.29	1/1	mm	Size
			A4



Part Name: 260009510-GP2
File Name: 9812R055-PIPE-01-A1




LABEL

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REV	DESCRIPTION	Section	Engineer	Checked	Date

29

11

MITAC P/N:343C46600001
 CM P/N:ECC-00843-05-GP

 SN:CM A1 YM D00001

Water code (00001-99999)
 Date Code (Year, Month, Day)
 Y(1-Z):5=2015, A=2020
 M(1-C):1=JAN, C=DEC
 D(1-X):1=1, X=31(Del: I, O)

Rev
 Vendor code

技術要求：
 1.材質:PET T=0.1；單面背膠
 2.字體：Arial；顏色黑色
 3.字體需明顯可辨
 4.Barcode format: code 128
 5.滿足ROHS2.0 2011/65/EU 6項要求

Cooler Master Co., Ltd
 正式圖面
 DATE 2018.02.06

DRAWN	Range	General tolerance:				
吳世明	0-10	0.1	0.1	0.15	M2	0.3
吳世明	10-30	0.15	0.2	0.25	0.8	0.4
吳世明	30-50	0.2	0.3	0.35	0.4	0.6
劉洪生	50-100	0.25	0.4	0.4	0.6	0.8
劉洪生	100~	0.3	0.5	0.6	0.8	1.0

DATE	APPROVED	Scale	Sheet-count	mm	Size
2018.02.06	劉洪生	1:1	1/1	mm	A4

Part Name: ECC-00843-05-GP
 File Name: 18R0154-LABEL-01-T1

Cooler Master
 COOLER MASTER
 CO., LTD.



SCREW

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4	3	2	1
REV	DESCRIPTION	Section	Engineer
Checked	Date		

技術要求:

1. 材質: AISI1018
2. 後處理: 鍍鎳, 膜厚: 1.0±0.2um
3. 表面不可刮傷, 銳邊, 毛刺
4. 標示符號 X 的為重點檢驗尺寸
5. 產品需符合 ROHS2.0

Cooler Master Co., Ltd
正式圖面
DATE: 2012.09.28

DRAWN		TOL ± general tolerance: here I use the crossed items									
DATE	2012.09.28	0~10	X	0.1	0.15	0.2	0.3				
ENGINEER	甘梓	10~30	0.2	0.2	0.25	0.3	0.4				
DATE	2012.09.28	30~50	0.2	0.3	0.35	0.4	0.5				
CHECKER	周慧華	50~100	0.25	0.3	0.4	0.6	0.8				
DATE	2012.09.28	100~	0.3	0.5	0.6	0.8	1.0				
APPROVA	周慧華	Angle	1'	2'	3'	5'					
DATE	2012.09.28	Scale	1/1								
		Sheet	1/1								
		Unit	mm								
		Size	A4								

COOLER MASTER COO., LTD.	Part Name 150033740-GP	File Name F.D.D_4000-8000--Screw-01-A2
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SPRING

ALL IP RIGHTS OWNED AND RESERVED BY COOLER MASTER		CONFIDENTIAL		VER.:A1
	4	3	2	
REV	DESCRIPTION	Section	Engineer	Checked
Date				

8.80±0.2

φ7.60

技術要訣:

- 1.材質:SWPB
- 2.線徑:1.1mm
- 3.有效圈數:3
- 4.總圈數:5
- 5.自由長:8.8 mm
- 6.K:1.777±10% kgf/mm
- 7.后處理:鍍銀
- 8.表面不可刮傷,銳邊,毛刺
- 9.標示符號 X 的為重點檢驗尺寸

Cooler Master Co., Ltd

正式圖面

DATE 2012.09.28

DRAWN	DATE	2012.09.28	Range	TOL ± general tolerance: here I use the crossed items					 COOLER MASTER CO., LTD.
甘梓	2012.09.28	0~10	X1	0.1	0.15	0.2	0.3		
ENGINEER	DATE	2012.09.28	10~30	0.2	0.2	0.25	0.3	0.4	
甘梓	2012.09.28	30~50	0.2	0.3	0.35	0.4	0.5	0.6	
Checked	DATE	2012.09.28	50~100	0.25	0.3	0.4	0.6	0.8	
周桂華	2012.09.28	100~	0.3	0.5	0.6	0.8	1.0		
APPROVAL	DATE	2012.09.28	Scale	1	2	3	5	Part Name	
周桂華	2012.09.28	1/1	mm	mm	mm	mm	mm	450010850-GP	
								4006-8006--Spring-01-A1	



WASHER

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4	3	2	1
A	B	C	D

技術要求:

- 1.材質:SK7
- 2.後處理:鍍鎳,膜厚:1.0±0.2um
- 3.表面不可刮傷,銳邊,毛刺
- 4.標示符號 X 的為重點檢驗尺寸
- 5.產品需符合 ROHS2.0

REV	DESCRIPTION	Section	Engineer	Checked	Date

Cooler Master Co., Ltd
正式圖面
DATE 2012.02.22

DRAWN 王仕權 DATE 2012.02.22	Tot # (General) 1/1 Part # (use the crossed lines) 01 01 015 02 0.3		COOLER MASTER CO., LTD.
ENGINEER 王仕權 DATE 2012.02.22	10 - 30 0.15 0.2 0.25 0.3 0.4		300011850-GP2
CHECKER 周慧華 DATE 2012.02.22	50 - 100 0.25 0.4 0.4 0.6 0.8		BL420_rear-Washer-01-A1
APPROVAL 周慧華 DATE 2012.02.22	100 - 3° 3° 5°		
Scale	1" 2" 3" 5"		
	Shrinked Unit mm A4		



O-RING

4	3	2	1			
ALL IP RIGHTS OWNED AND RESERVED BY COOLER MASTER			CONFIDENTIAL	VER: A1		
REV		DESCRIPTION	Section	Engineer	Checked	Date

1. 材質: 65Mn
2. 後處理: 鍍鎳
3. 硬度: HRC40~50
4. 厚度: 0.25mm
5. 去除所有毛邊與鋒邊
6. 標示1~4皆為重點尺寸
7. 需符合HP ROHS2.0 & HF 環保要求.

DRAWN	郭威	Range	TOL # General Tolerances: Dim't 1 use the crossed lines				
DATE: 2011.4.15		0~10	0.1	0.1	0.15	0.2	0.3
ENGINEER	郭威	10~30	0.5	0.2	0.25	0.3	0.4
DATE: 2011.4.15		30~50	0.2	0.3	0.35	0.4	0.6
CHECKED	周慧華	50~100	0.25	0.4	0.4	0.6	0.8
DATE: 2011.4.15		100~	0.3	0.5	0.6	0.8	1.0
APPROVAL	周慧華	Angles	1°	2°	3°	3°	5°
DATE: 2011.4.15		Scale	1/1	Standard Unit	mm	Size	A4

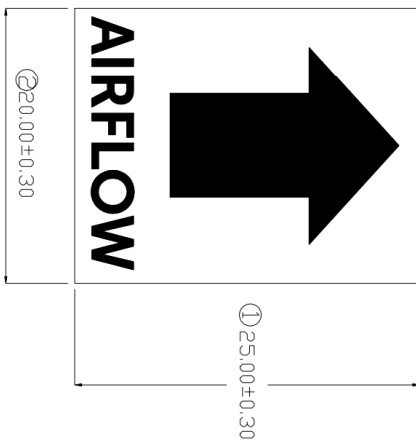
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Cooler Master Co., Ltd 正式圖面 DATE: 2011.4.15 </div>	
Part Name	Part Name
300010740-GR3	300010740-GR3
File Name	File Name
9703R0068-CS-A1	9703R0068-CS-A1



LABEL

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REV	DESCRIPTION	Section	Engineer	Checked	Date
2					



1. MATERIAL SHALL MEET "UL/CSA RECOGNIZED LABELING SYSTEM" REQUIREMENT.
2. COLOR: WHITE PAPER AND BLACK TEXT

Cooler Master Co., Ltd	
正式圖面	
DATE	2014.07.15

DRAWN		TOL ±		General tolerance:		Part ± use the crossed items		Cooler Master	
DATE	2015.03.03	0~10	0.1	0.1	0.15	0.2	0.3	COOLER MASTER CO., LTD.	
ENGINEER	張建平	10~30	0.15	0.2	0.25	0.3	0.4		
DATE	2015.03.03	30~50	0.2	0.3	0.35	0.4	0.6		
CHECKED	張建平	50~100	0.25	0.4	0.4	0.6	0.8		
DATE	2015.03.03	100~	0.3	0.4	0.6	0.8	1.0		
APPROVAL	張建平	Angles	1°	2°	3°	3°	5°	Part Name 358063090-GP	
DATE	2015.03.03	Scale	1:1	2:1	3:1	3:1	5:1	File Name	
		Sheet-qty	1/1					A410304R051-LABEL-02-A1	