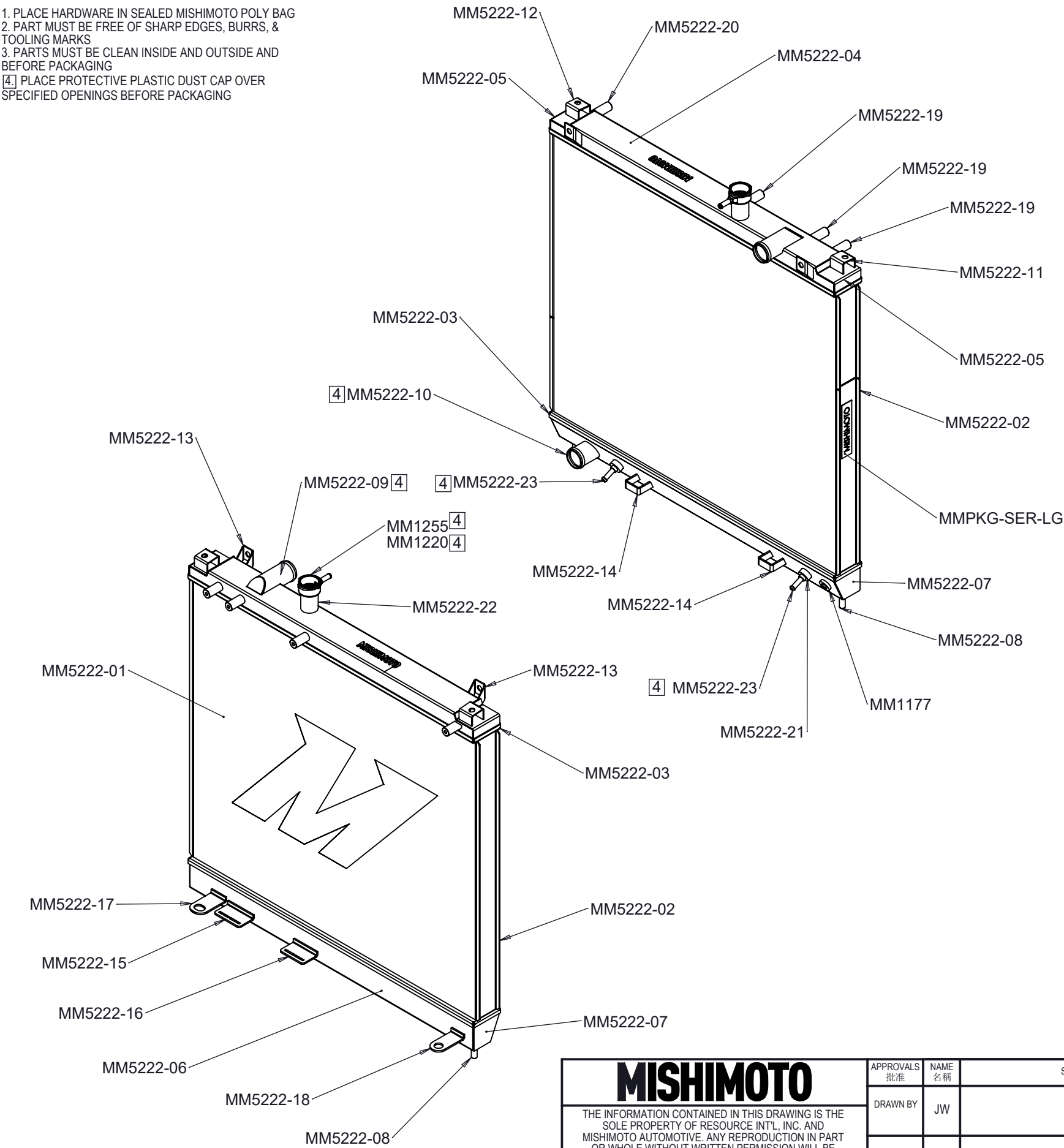


NOTES:
筆記

1. PLACE HARDWARE IN SEALED MISHIMOTO POLY BAG
2. PART MUST BE FREE OF SHARP EDGES, BURRS, & TOOLING MARKS
3. PARTS MUST BE CLEAN INSIDE AND OUTSIDE AND BEFORE PACKAGING
4. PLACE PROTECTIVE PLASTIC DUST CAP OVER SPECIFIED OPENINGS BEFORE PACKAGING



REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	UPDATED BOM TABLE	6/29/2021	JW
3	REMOVED MM1184, SEE SHEETS 2, 5, 7, 14, 15, 17, 18, 19, 25, ADDED NOTECARD	7/29/2021	JW

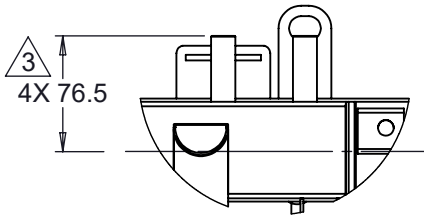
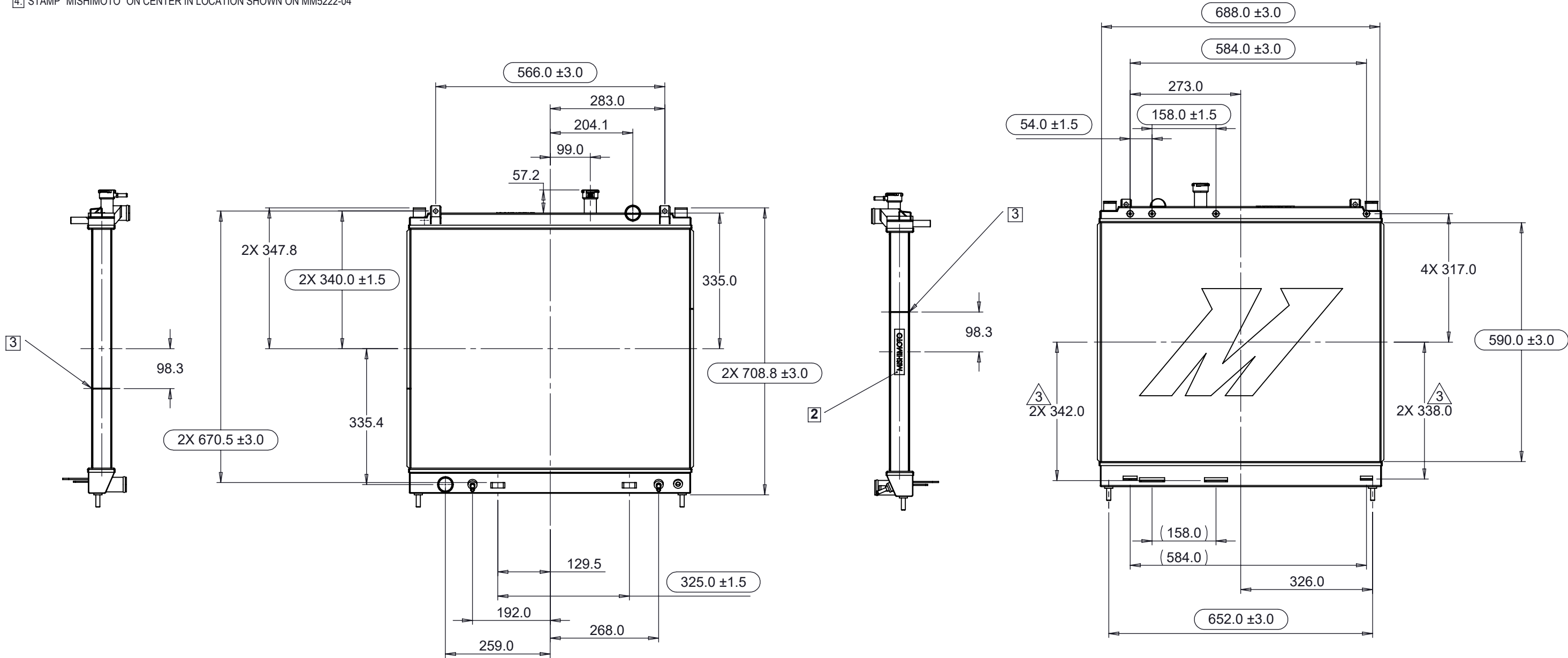
BOM			
DRAWING NUMBER	PART NUMBER	DESCRIPTION	QTY.
MM5222	--	WELDMENT	--
MM5222	MM5222-01	CORE	1
MM5222	MM5222-02	CORE SUPPORT	2
MM5222	MM5222-03	HEADER PLATE	2
MM5222	MM5222-04	UPPER END TANK	1
MM5222	MM5222-05	UPPER TANK CAP	2
MM5222	MM5222-06	LOWER END TANK	1
MM5222	MM5222-07	LOWER TANK CAPS	1
MM5222	MM5222-08	LOWER RADIATOR MOUNT	2
MM5222	MM5222-09	INLET TUBE	1
MM5222	MM5222-10	OUTLET TUBE	1
MM5222	MM5222-11	UPPER RADIATOR MOUNT 1	1
MM5222	MM5222-12	UPPER RADIATOR MOUNT 2	1
MM5222	MM5222-13	UPPER FAN MOUNT	2
MM5222	MM5222-14	LOWER FAN MOUNT	2
MM5222	MM5222-15	LOWER TRANS COOLER MOUNT 1	1
MM5222	MM5222-16	LOWER TRANS COOLER MOUNT 2	1
MM5222	MM5222-17	LOWER A/C COOLER MOUNT 1	1
MM5222	MM5222-18	LOWER A/C COOLER MOUNT 2	1
MM5222	MM5222-19	UPPER COOLER MOUNT	3
MM5222	MM5222-20	UPPER COOLER MOUNT 2	1
MM5222	MM5222-21	INTERNAL COOLER	1
MM5222	MM5222-22	FILL NECK TUBE	1
MM5222	MM5222-23	INTERNAL COOLER FITTING	2
MM5222	MM5222-24	NOTECARD	1
MM1177	MM1177	DRAIN PLUG BUNG	1
MM1220	MM1220	OVERFLOW NIPPLE	1
MM1255	MM1255	SMALL FILL NECK BILLET	1
MM1279	MM1279BK	DRAIN PLUG	1
MM1352	MM1352-05	M6 NUT CLIP	4
MM1521	HF5X0.8-16	M5 X 16MM BOLT	4
MM1521	HF6X1.0-20A	M6 X 20MM BOLT	4
MMPKG-SER	MMPKG-SER-LG	SERIAL PLATE	1

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	DRAWN BY	JW		6/11/2021	<div>FIRST ANGLE PROJECTION</div> <div>INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013</div>	PART NO. MISHIMOTO 5222	
	MM					DRAWING NO. 圖號	REV. 修改
	MFR.				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING 0-150mm ±1 mm EACH ADDITIONAL 25mm ±0.15 mm ANGLE ±1°		SIZE A3 SCALE 比例 1:8 UNITS 單位 MM SHEET 頁號 1 / 27

NOTES:
筆記

1. FINISH: POLISHED
表面處理
2. ATTACH SERIAL PLATE IN POSITION AND ORIENTATION SHOWN, SECURE WITH 3M ADHESIVE
3. RELIEF CUT ONLY MM5222-02 IN LOCATIONS SHOWN AFTER WELDING IS COMPLETE
4. STAMP "MISHIMOTO" ON CENTER IN LOCATION SHOWN ON MM5222-04

REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	ADDED 2X DIMENSIONS	6/29/2021	JW
3	CHANGED 3X DIMENSION	7/29/2021	JW



DETAIL A
SCALE 1 : 5

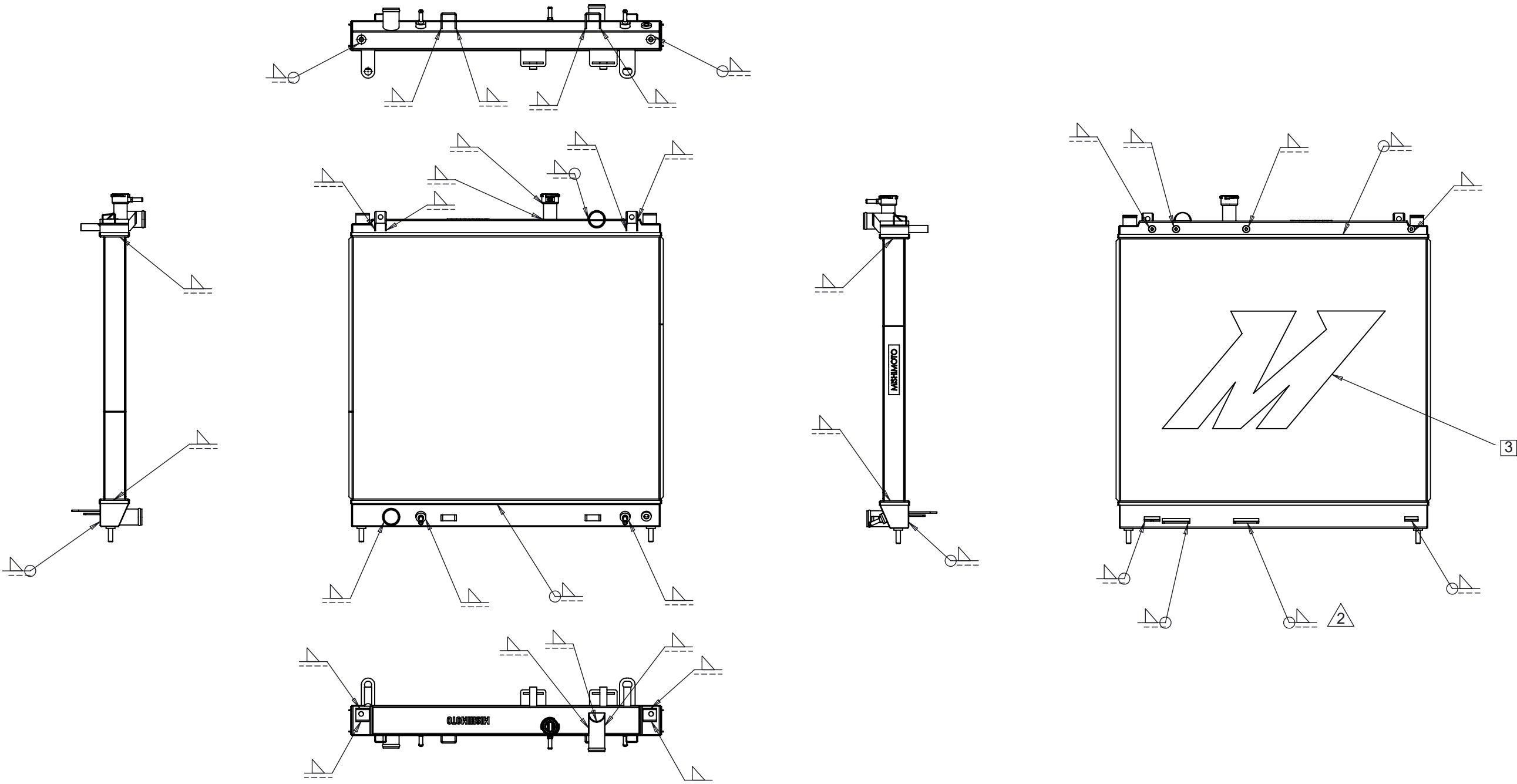
MISHIMOTO THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RESOURCE INT'L, INC. AND MISHIMOTO AUTOMOTIVE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT WRITTEN PERMISSION WILL BE SUBJECT TO LEGAL ACTION.	APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期	CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS: XX.XX		TITLE 標題 WELDMENT	
	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009; FOLLOW WELDING STANDARD IS 2553:2013	PART NO. --	
版权保护: 以上的图纸信息由 MISHIMOTO AUTOMOTIVE 公司 独家所有, 未经 MISHIMOTO AUTOMOTIVE 公司的 书面同意, 其他人抄袭或盗版均属违法行为	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING		DRAWING NO. 圖號 MM5222	
	MFR.				0-150mm EACH ADDITIONAL 25mm ANGLE	+1 mm ±0.15 mm ±1°	SIZE A3	SCALE 比例 1:10
		UNITS 單位	MM	SHEET 頁號	2 / 27	REV. 修改 3		


NOTES:
筆記

1. FULLY WELD ALL END TANK SEAMS
2. SEAL ALL OPENINGS AND PRESSURE TEST AT 0.125MPA (18PSI) FOR 1 MINUTE WHILE SUBMERGED IN WATER. IF ANY LEAKS ARE PRESENT, REJECT THE PART
3. SPRAY "M" LOGO CENTERED ON CORE AS SHOWN, REFER TO CORE LOGO BRANDING GUIDE FOR MORE INFORMATION

REVISIONS 修改

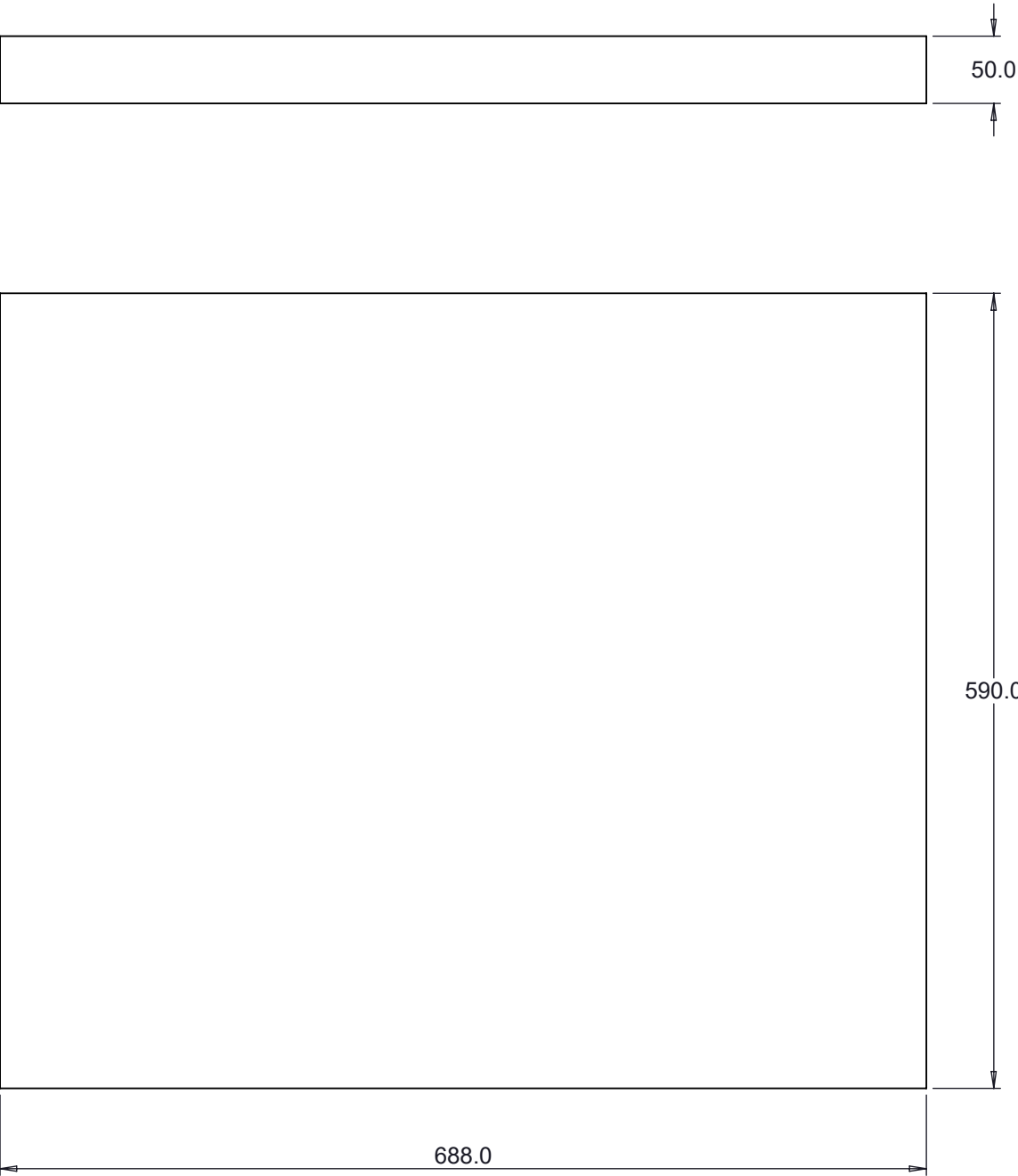
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	CHANGED 6X WELDING NOTES	6/29/2021	JW
3	NO REVISION	7/29/2021	JW



<div>MISHIMOTO</div> <div>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RESOURCE INT'L, INC. AND MISHIMOTO AUTOMOTIVE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT WRITTEN PERMISSION WILL BE SUBJECT TO LEGAL ACTION.</div>	APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期	CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS: <div><div>XX.XX</div></div>		TITLE 標題 WELD NOTES			
	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO. --			
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	MFR.					<div><div>±1 mm</div><div>±0.15 mm</div><div>±1°</div></div>	SIZE A3	SCALE 比例 1:10	UNITS 單位 MM	SHEET 頁號 3 / 27

NOTES:
筆記

- 1. MATERIAL: ALUMINUM
材料
- 2. TUBE HEIGHT: 2
- 3. TUBE WIDTH: 22
- 4. TUBE WALL THICKNESS: 0.3
- 5. FIN HEIGHT: 8
- 6. FIN WIDTH: 50
- 7. FIN PITCH: 3.0
- 8. FIN THICKNESS: 0.08
- 9. FIN TYPE: LOUVERED



REVISIONS 修改

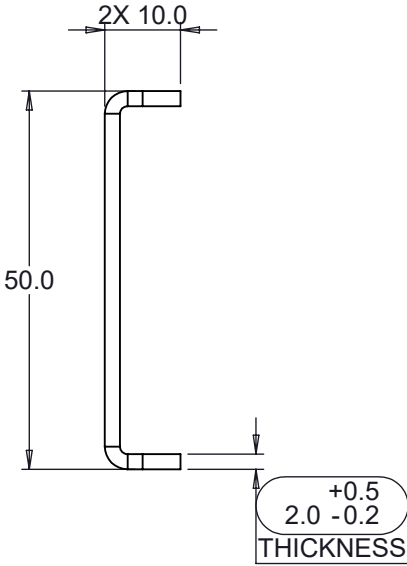
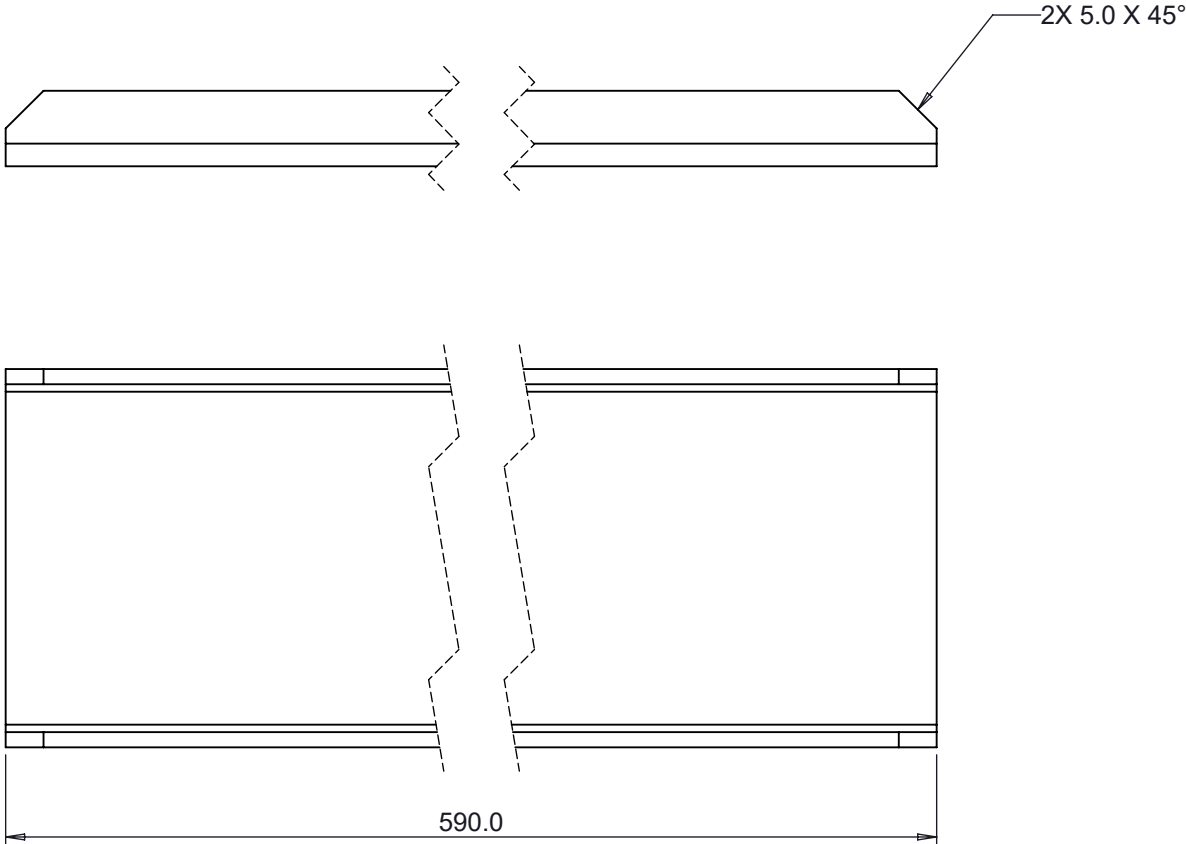
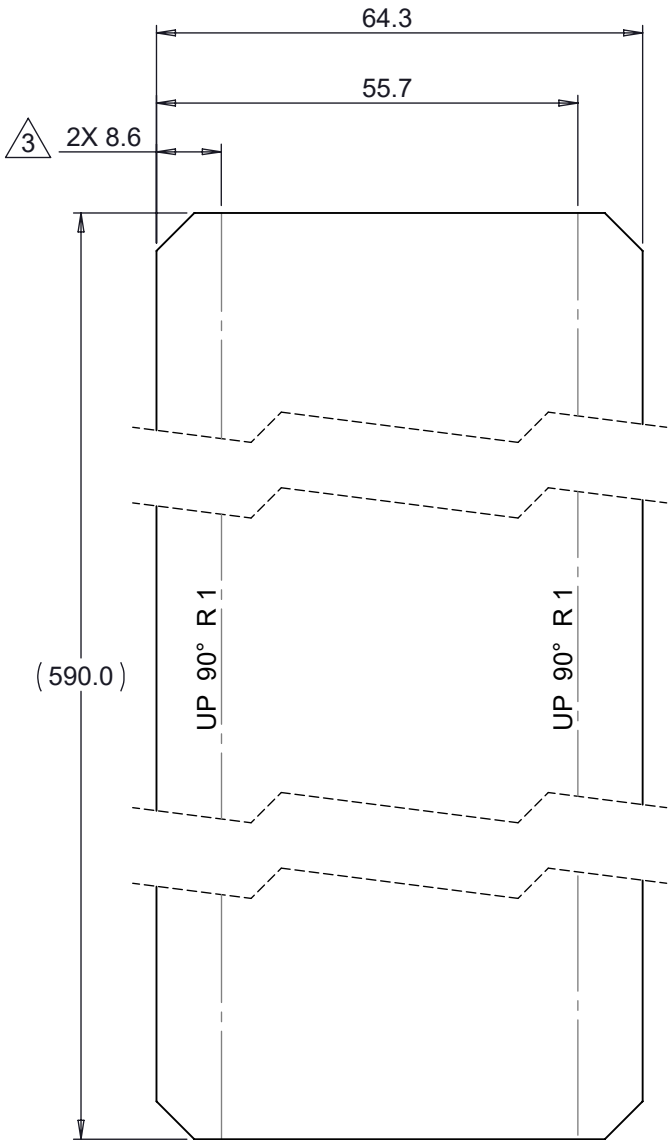
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	FIXED 1X NOTE	6/29/2021	JW
3	NO REVISION	7/29/2021	JW

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	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO. <div>MM5222-01</div>			
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING 0-150mm EACH ADDITIONAL 25mm ANGLE		DRAWING NO. 圖號 <div>MM5222</div>		REV. 修改 <div>3</div>	
	MFR.				0-150mm EACH ADDITIONAL 25mm ANGLE	<div><div>±1 mm</div><div>±0.15 mm</div><div>±1°</div></div>	SIZE <div>A3</div>	SCALE 比例 <div>1:5</div>	UNITS 單位 <div>MM</div>	SHEET 頁號 <div>4 / 27</div>

NOTES:
筆記

1. MATERIAL: AL-3A21
材料
2. FINISH: NATURAL
表面處理

REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	NO REVISION	6/29/2021	JW
3	CHANGED 1X DIMENSION	7/29/2021	JW



FLAT PATTERN
FOR SUPPLIER REFERENCE

<div>MISHIMOTO</div> <div>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RESOURCE INT'L, INC. AND MISHIMOTO AUTOMOTIVE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT WRITTEN PERMISSION WILL BE SUBJECT TO LEGAL ACTION.</div> <div>版权保护: 以上的图纸信息由 MISHIMOTO AUTOMOTIVE 公司独家所有, 未经 MISHIMOTO AUTOMOTIVE 公司的书面同意, 其他人抄袭或盗版均属违法行为</div>	APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期	CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS: <div><div>XX.XX</div></div>		TITLE 標題CORE SUPPORT			
	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO. MM5222-02			
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING		DRAWING NO. 圖號MM5222		REV. 修改 3	
	MFR.				0-150mm EACH ADDITIONAL 25mm ANGLE	<div><div>±1 mm</div><div>±0.15 mm</div><div>±1°</div></div>	SIZE A3	SCALE 比例1:1	UNITS 單位MM	SHEET 頁號5 / 27

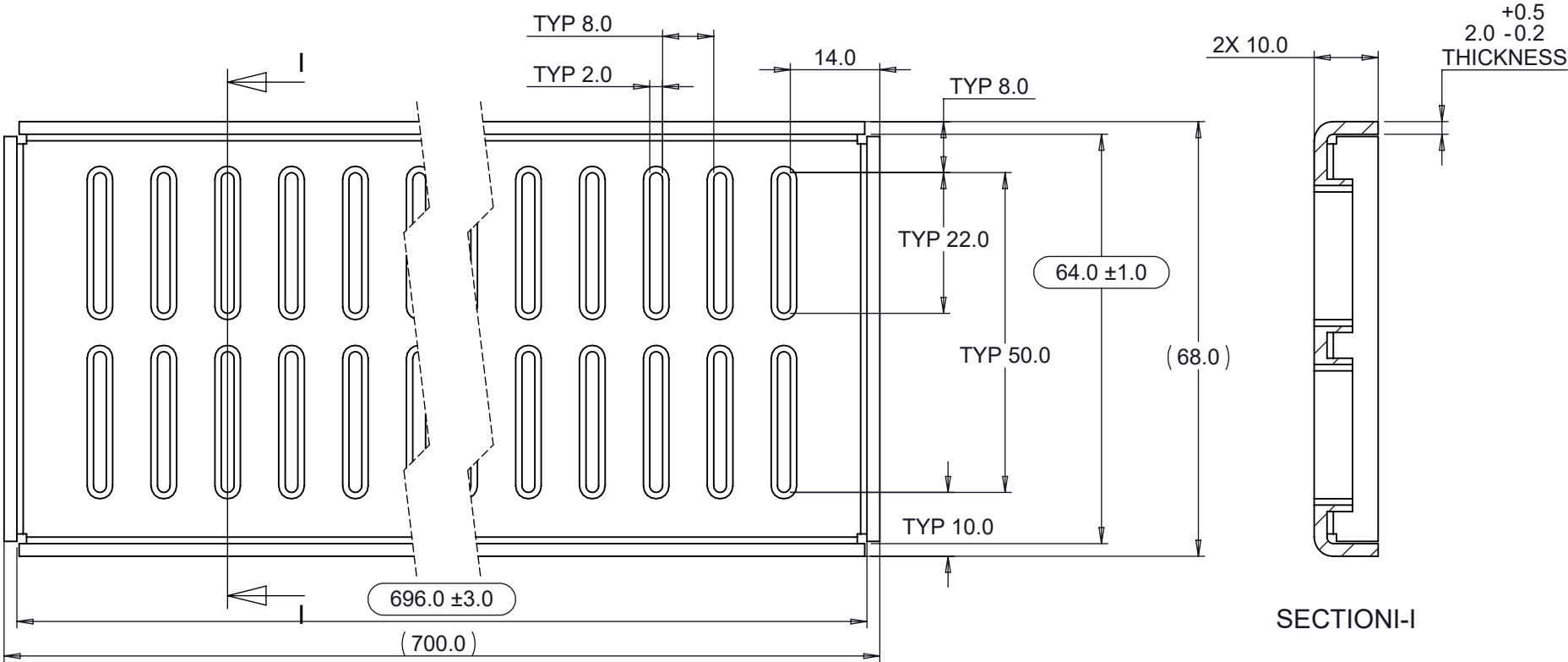
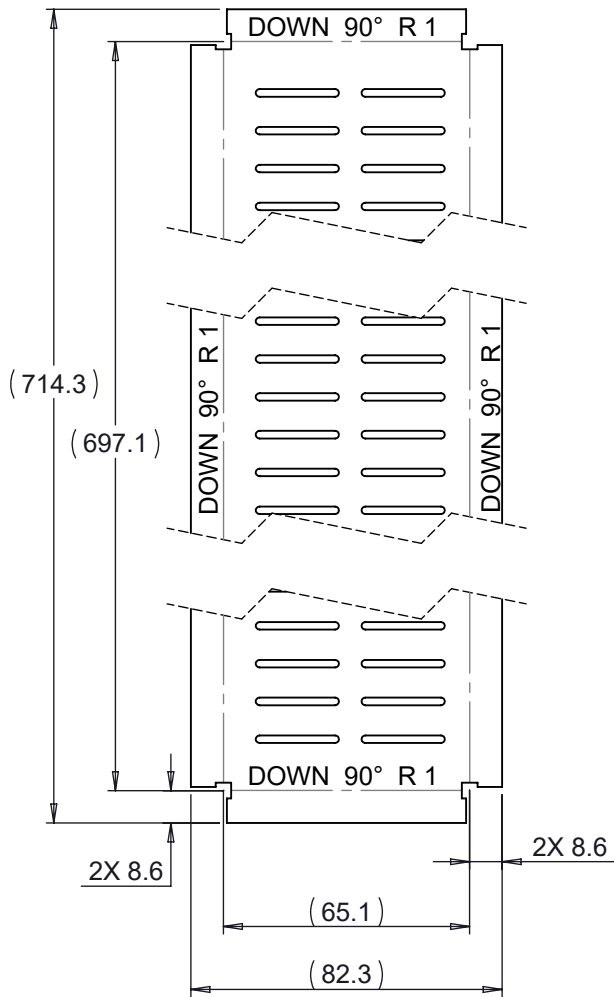
NOTES:
筆記

1. MATERIAL: AL-3003
材料

2. FINISH: NATURAL
表面處理

3. DRAWING IS REFERENCE OF RADIATOR TUBE AND FIN HEIGHT ONLY.
ALL OTHER GEOMETRY OF HEADER PLATE WILL BE DETERMINED BY
MANUFACTURER TO ENSURE MAXIMUM QUALITY.

REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	NO REVISION	6/29/2021	JW
3	NO REVISION	7/29/2021	JW



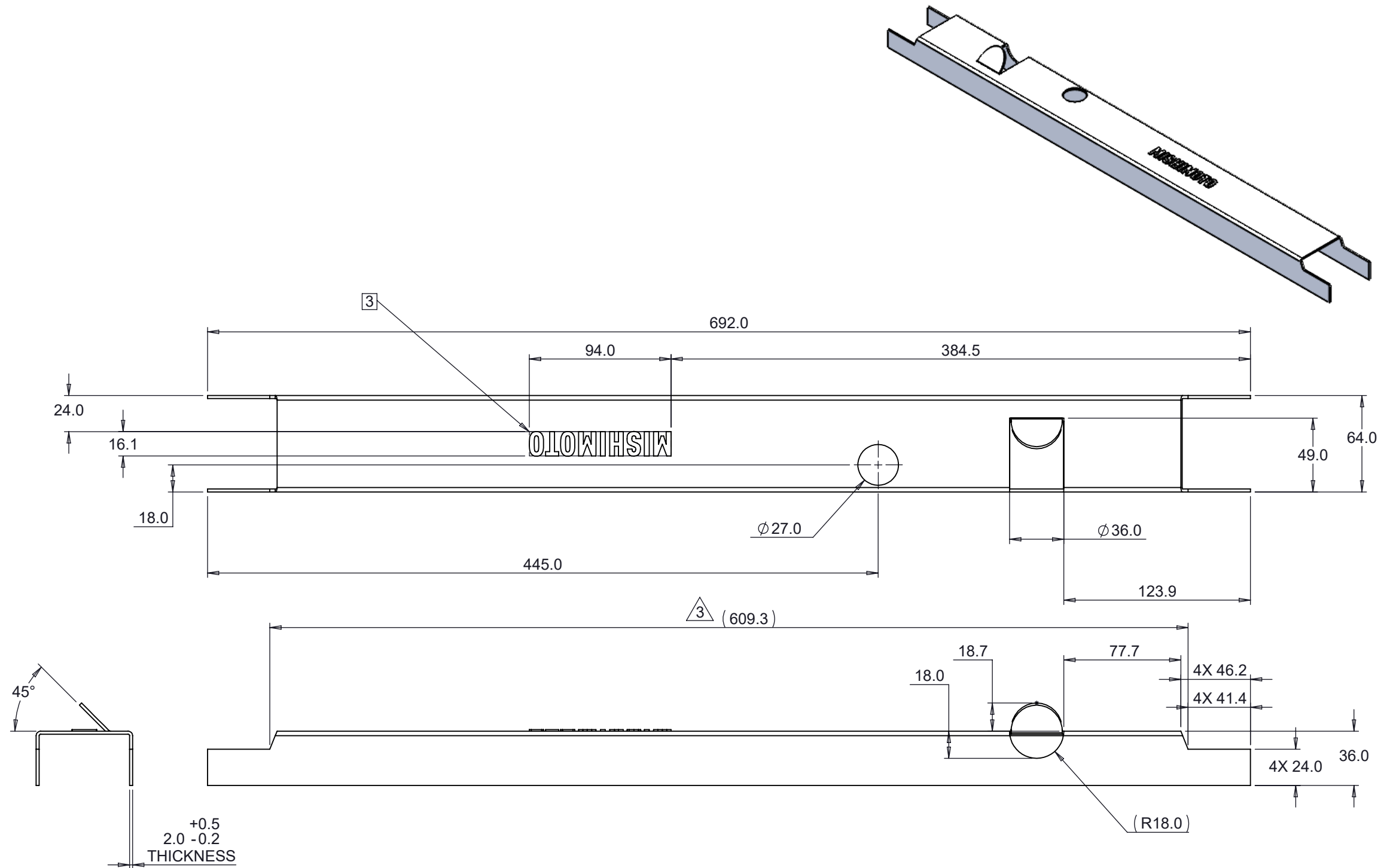
SECTION I-I


FLAT PATTERN
FOR SUPPLIER REFERENCE
SCALE 1:2

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	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION 	PART NO. MM5222-03	
	MM				INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	DRAWING NO. 圖號 MM5222	
	MFR.				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING 0-150mm ±1 mm EACH ADDITIONAL 25mm ±0.15 mm ANGLE ±1°	REV. 修改 3	SIZE A3
SCALE 比例 1:1		UNITS 單位 MM	SHEET 頁號 6 / 27				

1. MATERIAL: AL-3A21
材料
2. FINISH: NATURAL
表面處理
3. STAMP MISHIMOTO LOGO IN LOCATION AND ORIENTATION SPECIFIED
4. ALL UNSPECIFIED DIMENSIONS MUST MATCH 3D MODEL

REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	ADDED 2X DIMENSIONS & 1X NOTE	6/29/2021	JW
3	CHANGED 1X DIMENSION TO REFERENCE	7/29/2021	JW



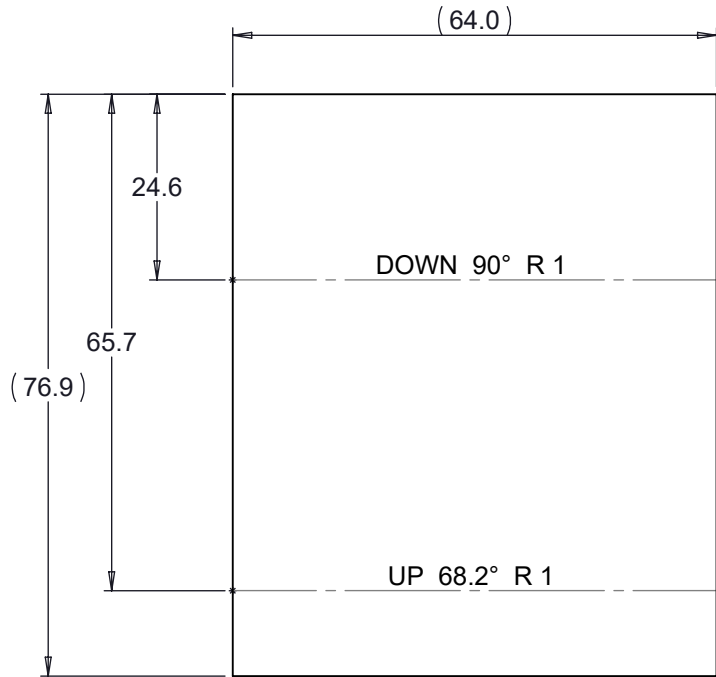
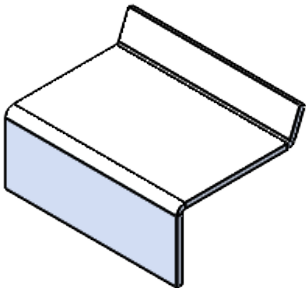
<div>MISHIMOTO</div> <div>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RESOURCE INT'L, INC. AND MISHIMOTO AUTOMOTIVE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT WRITTEN PERMISSION WILL BE SUBJECT TO LEGAL ACTION.</div>	APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期	CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS: <div><div>XX.XX</div></div>		TITLE 標題				UPPER END TANK	
	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO.		MM5222-04			
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING 0-150mm EACH ADDITIONAL 25mm ANGLE		DRAWING NO. 圖號		MM5222		REV. 修改 3	
	MFR.					±1 mm ±0.15 mm ±1°	SIZE A3	SCALE 比例	1:3	UNITS 單位	MM	SHEET 頁號
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NOTES:
筆記

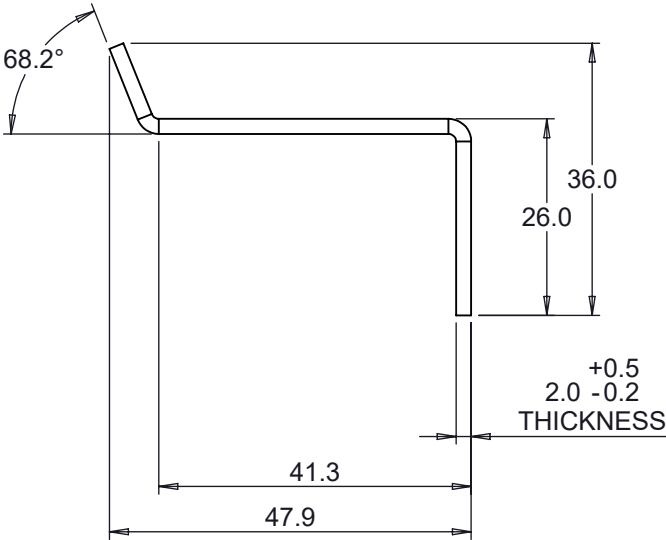
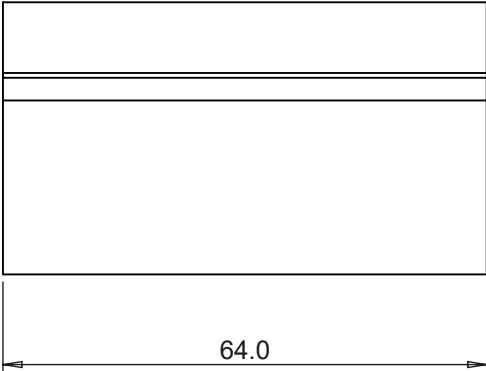
1. MATERIAL: AL-3A21
材料
2. FINISH: NATURAL
表面處理


REVISIONS 修改

REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	NO REVISION	6/29/2021	JW
3	NO REVISION	7/29/2021	JS



FLAT PATTERN
FOR SUPPLIER REFERENCE

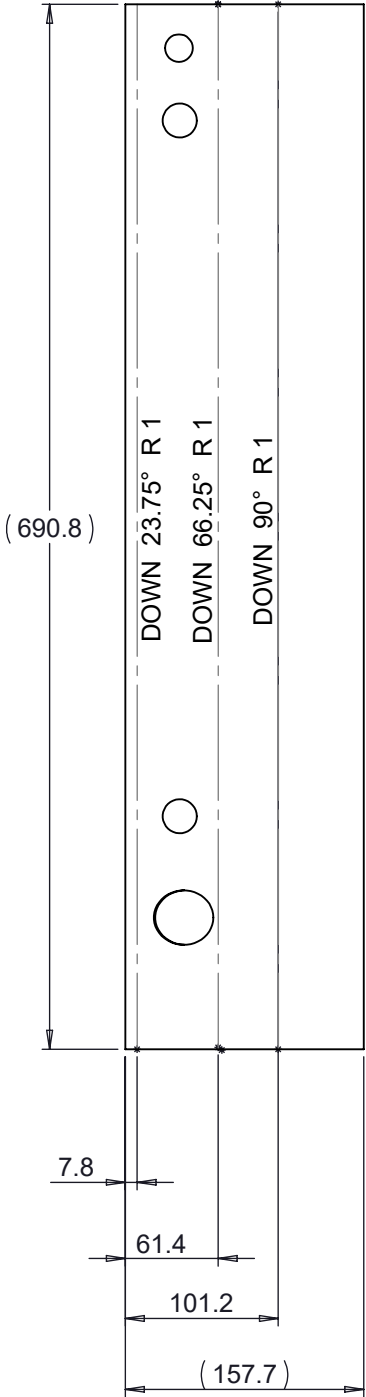


<div>MISHIMOTO</div> <div>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RESOURCE INT'L, INC. AND MISHIMOTO AUTOMOTIVE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT WRITTEN PERMISSION WILL BE SUBJECT TO LEGAL ACTION.</div> <div>版权保护: 以上的图纸信息由 MISHIMOTO AUTOMOTIVE 公司 独家所有, 未经 MISHIMOTO AUTOMOTIVE 公司的书面同意, 其他人抄袭或盗版均属违法行为</div>	APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期	CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS: <div><div>XX.XX</div></div>		TITLE 標題 UPPER TANK CAP			
	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO. MM5222-05			
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING		DRAWING NO. 圖號 MM5222		REV. 修改 3	
	MFR.				0-150mm EACH ADDITIONAL 25mm ANGLE	<div><div>±1 mm</div><div>±0.15 mm</div><div>±1°</div></div>	SIZE A3	SCALE 比例 1:1	UNITS 單位 MM	SHEET 頁號 8 / 27

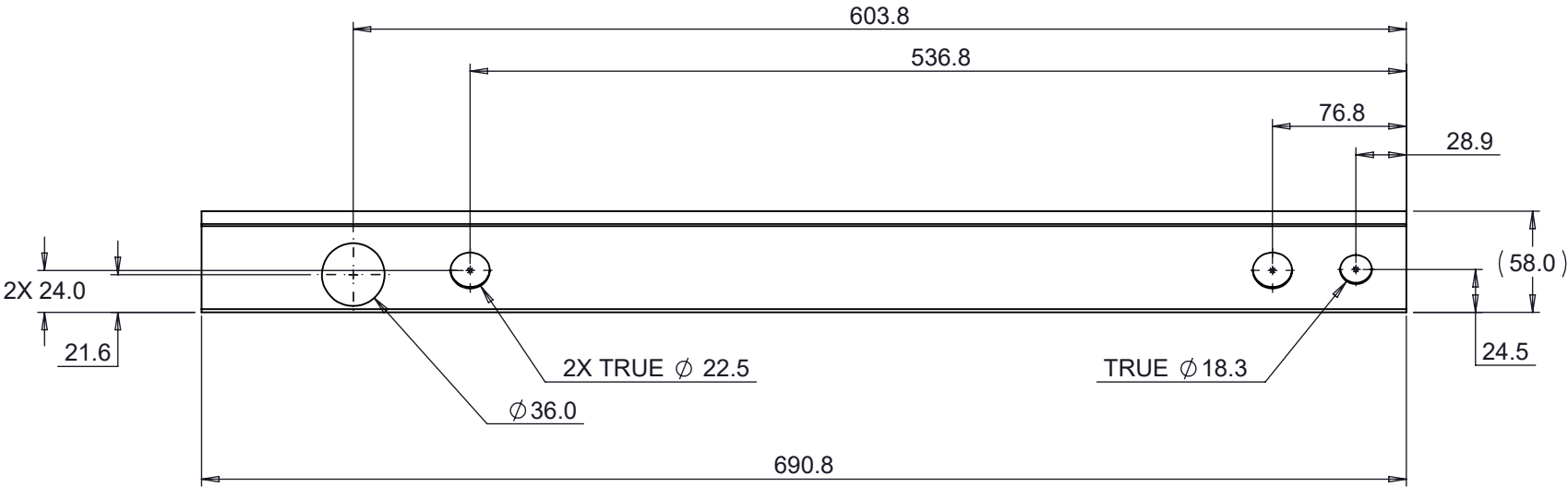
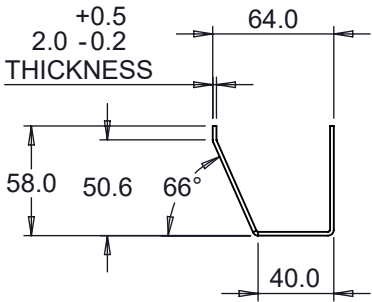
NOTES:
筆記

1. MATERIAL: AL-3A21
材料
2. FINISH: NATURAL
表面處理

REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
3	NO REVISION	7/29/2021	JW



FLAT PATTERN
FOR SUPPLIER REFERENCE
SCALE: 1:5



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	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO. MM5222-06		
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING		DRAWING NO. 圖號 MM5222		REV. 修改 3
	MFR.				0-150mm EACH ADDITIONAL 25mm ANGLE	<div><div>±1 mm</div><div>±0.15 mm</div><div>±1°</div></div>	SIZE A3	SCALE 比例 1:4	UNITS 單位 MM

NOTES:
筆記

1. MATERIAL: AL-3003
材料
2. FINISH: NATURAL
表面處理

REVISIONS 修改

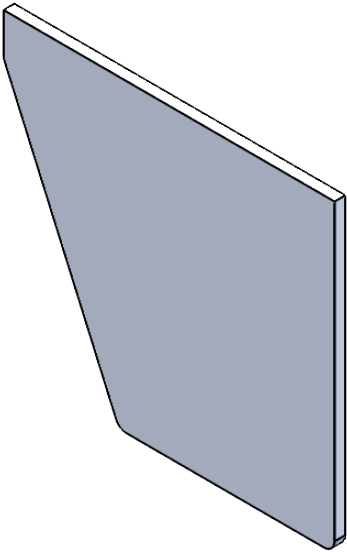
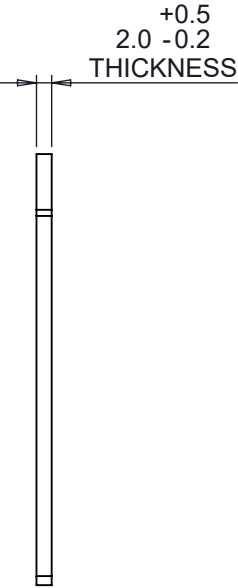
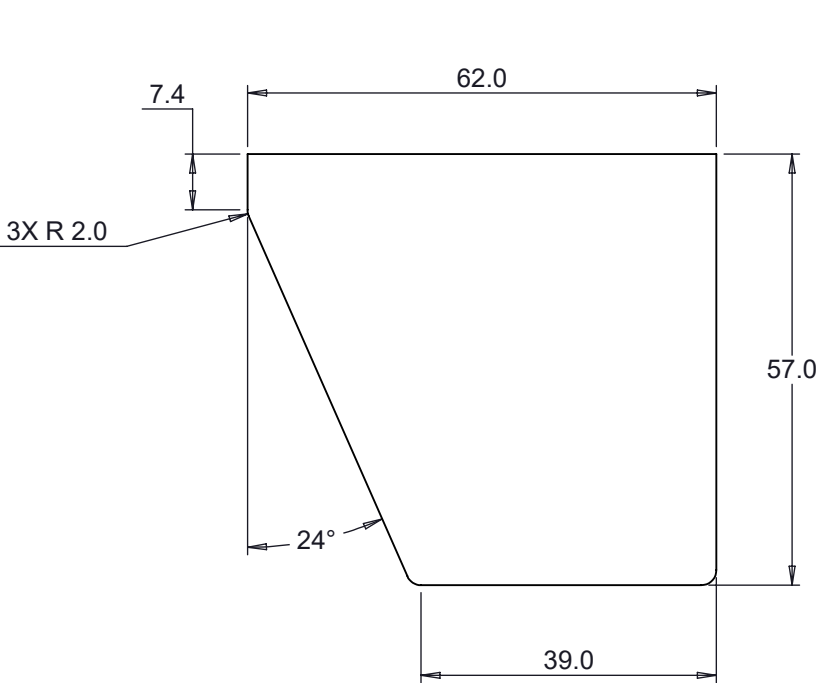
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	ADDED SHEET	6/29/2021	JW
2	NO REVISION	7/29/2021	JW
3	NO REVISION	7/29/2021	JW

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B

A



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APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期
DRAWN BY	JW		6/11/2021
MM			
MFR.			

CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS:	
XX.XX	
FIRST ANGLE PROJECTION	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD ISO 2553:2013. TOLERANCES APPLY TO PART AFTER FINISHING
BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED:	
0-150mm	±1 mm
EACH ADDITIONAL 25mm	±0.15 mm
ANGLE	±1°

TITLE 標題	LOWER TANK CAPS		
PART NO.	MM5222-07		
DRAWING NO. 圖號	MM5222		REV. 修改 3
SIZE	A4	SCALE 比例	1:1
UNITS 單位	MM	SHEET 頁號	10 / 27

5

4

3

2

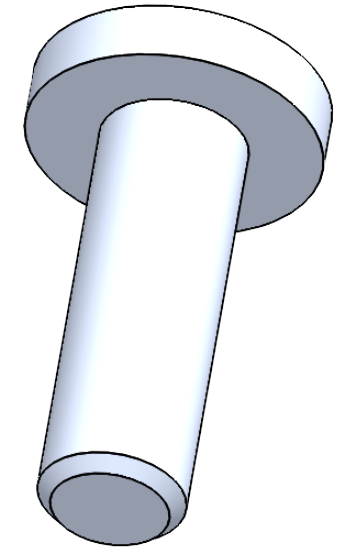
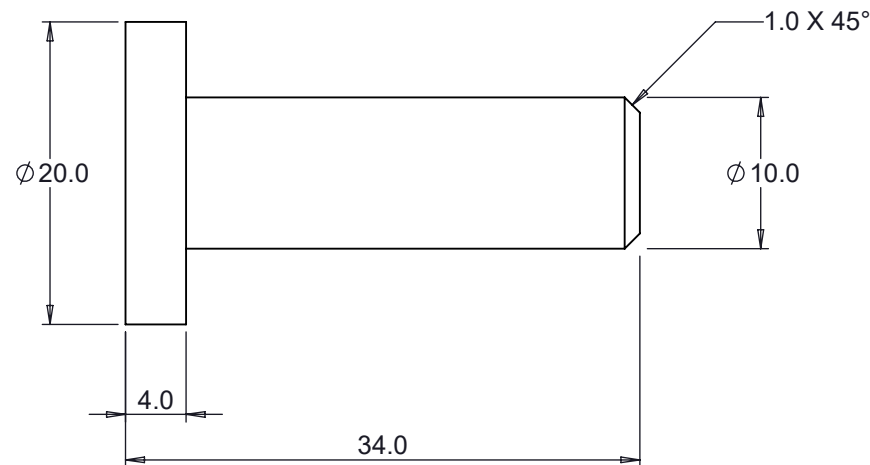
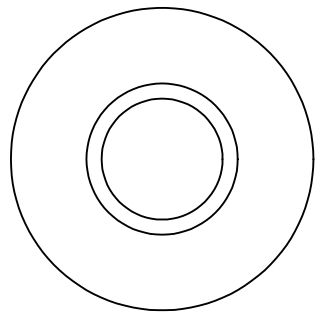
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NOTES:
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1. MATERIAL: AL-6061
材料
2. FINISH: NATURAL
表面處理

REVISIONS 修改

REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	NO REVISIONS	6/29/2021	JW
3	NO REVISION	7/29/2021	JW



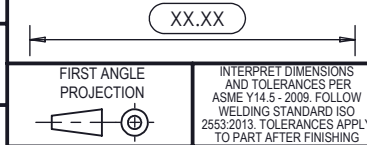
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APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期
DRAWN BY	JW		6/11/2021
MM			
MFR.			

CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS:



BASIC TOLERANCES
UNLESS OTHERWISE SPECIFIED:
0-150mm ±1 mm
EACH ADDITIONAL 25mm ±0.15 mm
ANGLE ±1°

TITLE 標題 LOWER RADIATOR MOUNT

PART NO. MM5222-08

DRAWING NO. MM5222 REV. 修改 3

SIZE A4 SCALE 2:1 UNITS MM SHEET 11 / 27

NOTES:
筆記

1. MATERIAL: AL-3003
材料
2. FINISH: NATURAL
表面處理

REVISIONS 修改

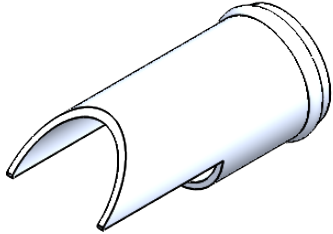
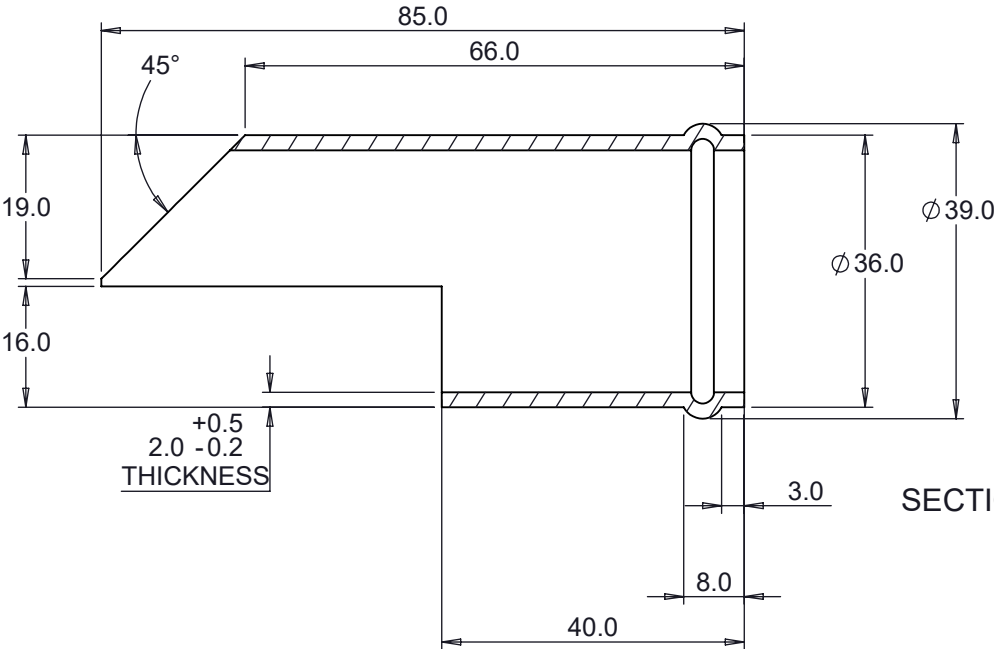
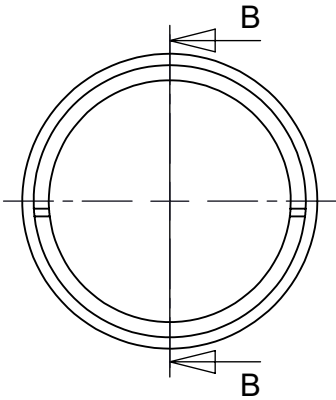
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	CHANGED 1X DIMENSIONS	6/29/2021	JW
3	NO REVISION	7/29/2021	JW

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SCALE:
1:2

SECTION B-B

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APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期
DRAWN BY	JW		6/11/2021
MM			
MFR.			

CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS:



FIRST ANGLE
PROJECTION



INTERPRET DIMENSIONS
AND TOLERANCES PER
ASME Y14.5 - 2009. FOLLOW
WELDING STANDARD ISO
2553:2013. TOLERANCES APPLY
TO PART AFTER FINISHING

BASIC TOLERANCES
UNLESS OTHERWISE SPECIFIED:
0-150mm ±1 mm
EACH ADDITIONAL 25mm ±0.15 mm
ANGLE ±1°

TITLE
標題

INLET TUBE

PART NO.

MM5222-09

DRAWING NO.
圖號

MM5222

REV. 修改

3

SIZE A4

SCALE 1:1

UNITS MM

SHEET 12 / 27

NOTES:

筆記

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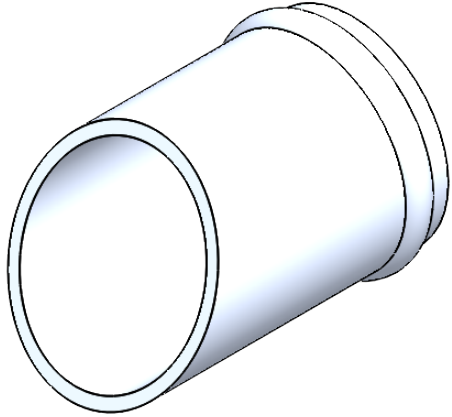
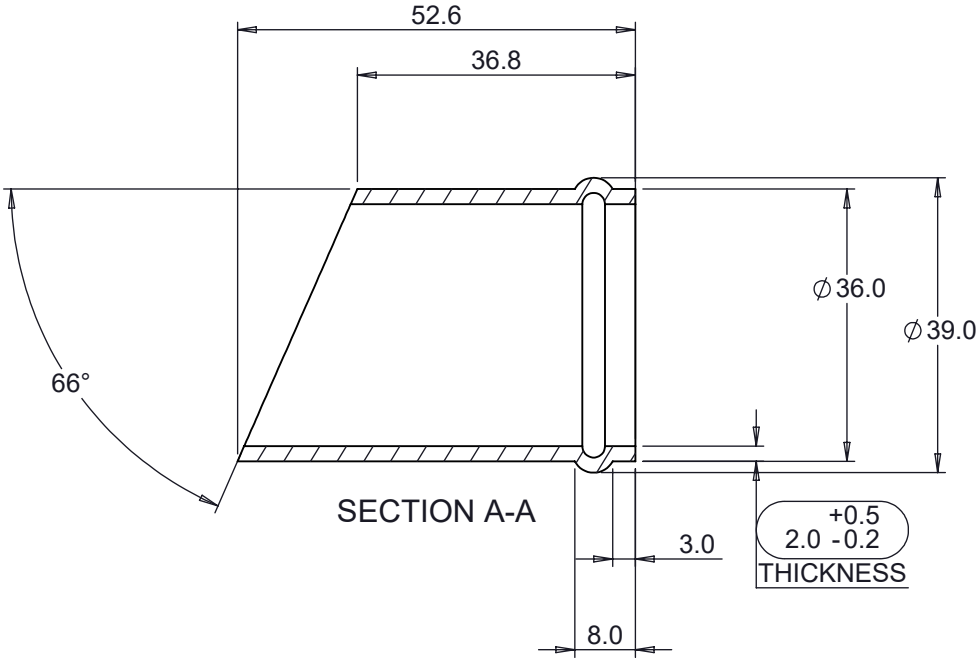
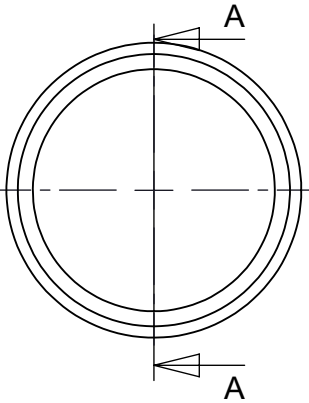
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2. FINISH: NATURAL

表面處理

REVISIONS 修改

REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	NO REVISION	6/29/2021	JW
3	NO REVISION	7/29/2021	JW



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APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期
DRAWN BY	JW		6/11/2021
MM			
MFR.			

CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS: XX.XX	
FIRST ANGLE PROJECTION	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD ISO 2553:2013. TOLERANCES APPLY TO PART AFTER FINISHING
BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED:	
0-150mm	±1 mm
EACH ADDITIONAL 25mm	±0.15 mm
ANGLE	±1°

TITLE 標題 **OUTLET TUBE**

PART NO. **MM5222-10**

DRAWING NO. 圖號 **MM5222**

REV. 修改
3

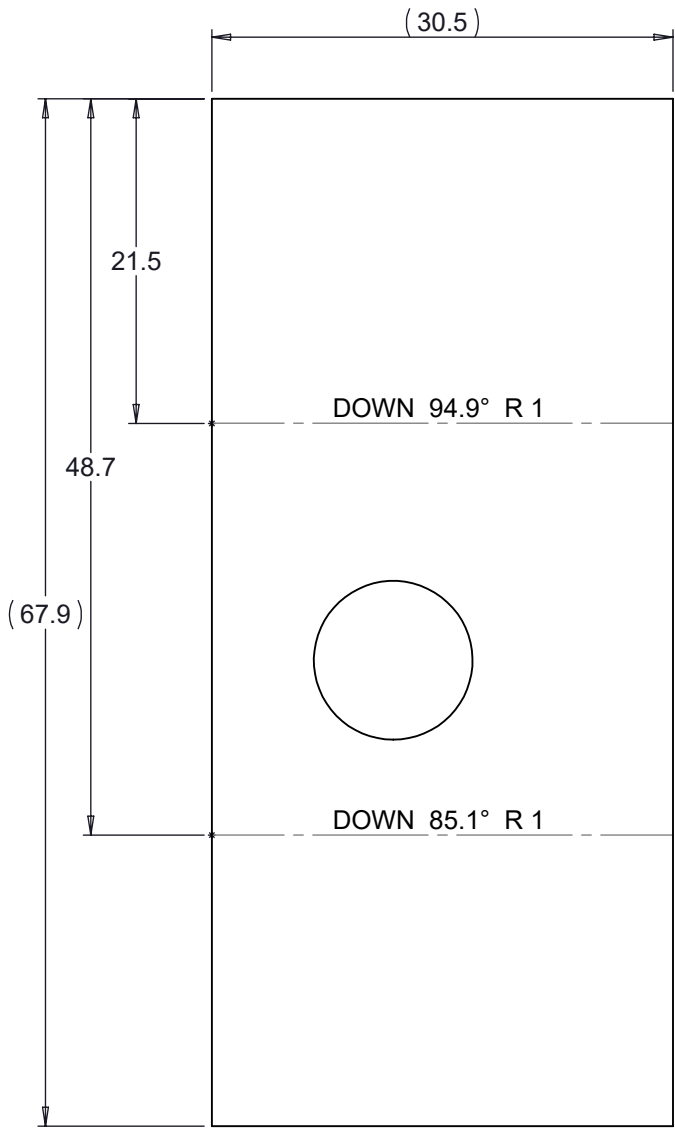
SIZE	A4	SCALE 比例	1:1	UNITS 單位	MM	SHEET 頁號	13 / 27
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NOTES:
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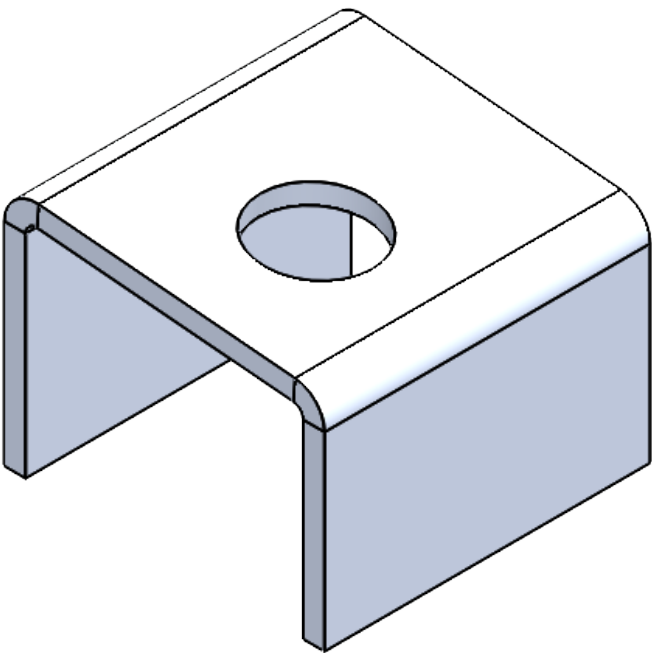
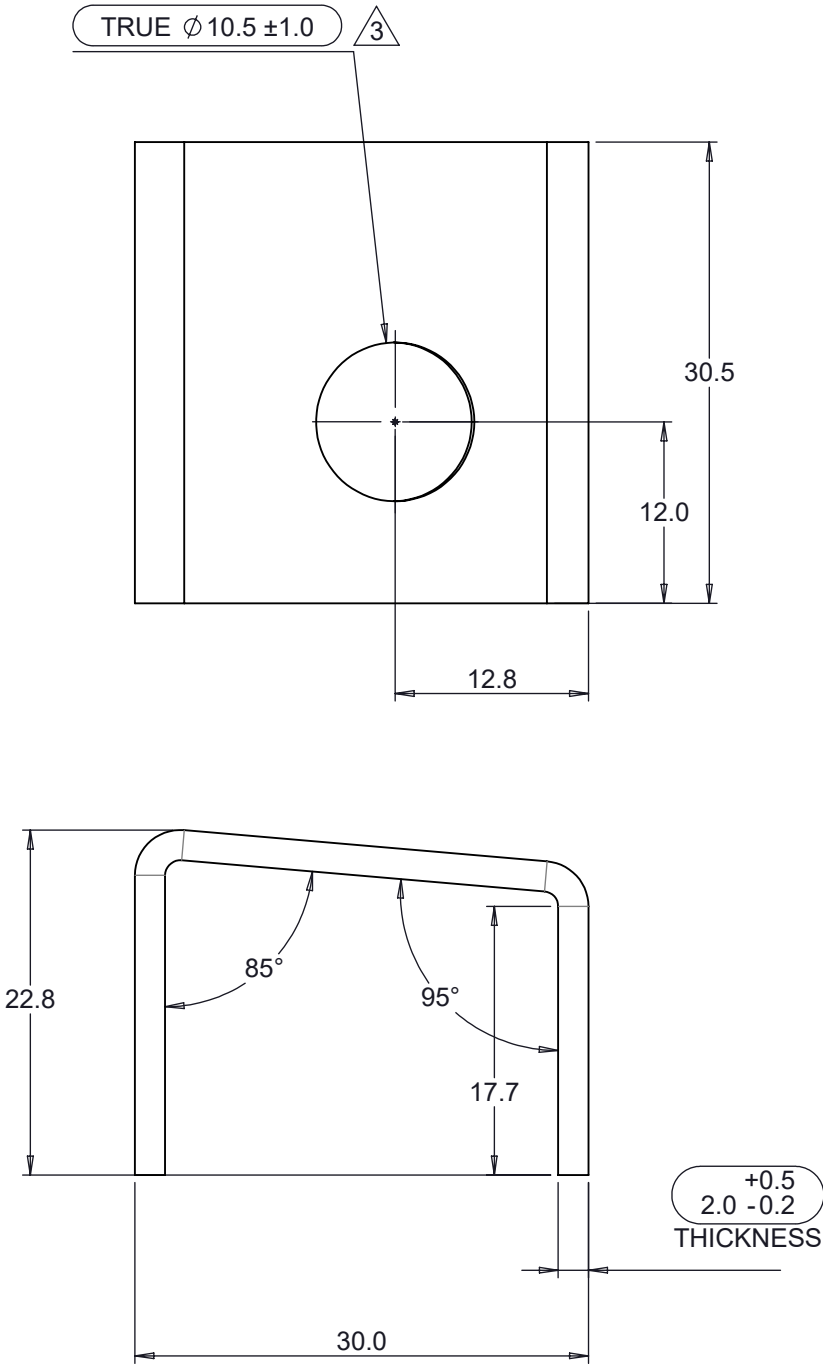
1. MATERIAL: AL-3A21
材料

2. FINISH: NATURAL
表面處理

REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	NO REVISION	6/29/2021	JW
3	CHANGED DIMENSION TO CRITICAL	7/29/2021	JW



FLAT PATTERN
FOR SUPPLIER REFERENCE

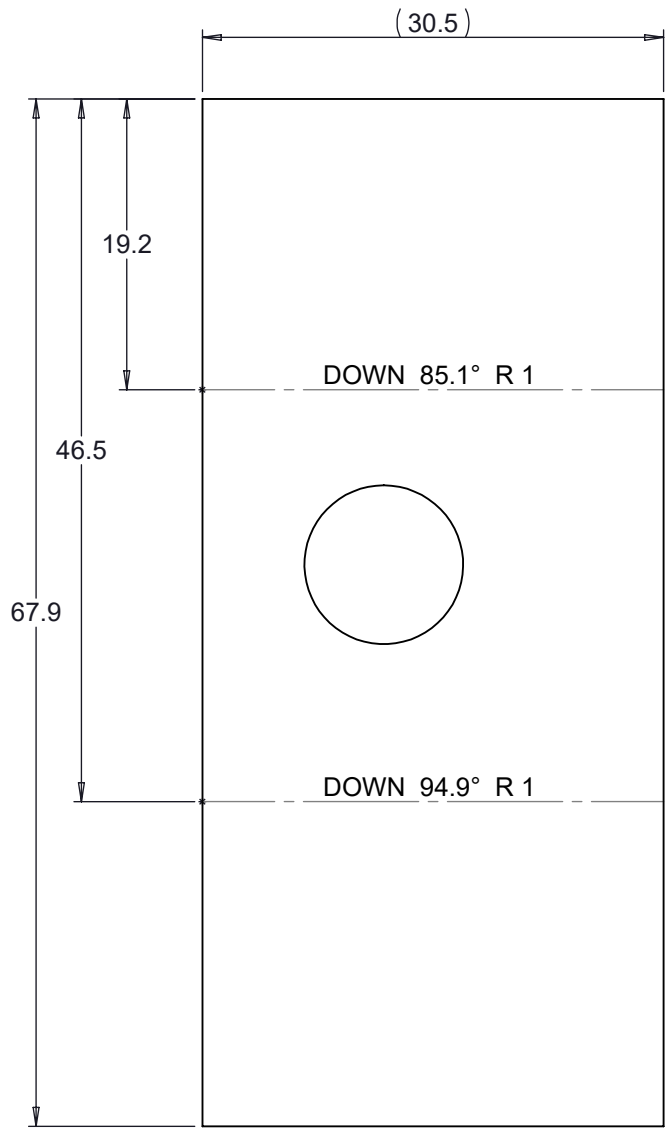


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	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO. <div>MM5222-11</div>		
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING		DRAWING NO. 圖號		REV. 修改
	MFR.				0-150mm EACH ADDITIONAL 25mm ANGLE	<div><div>±1 mm</div><div>±0.15 mm</div><div>±1°</div></div>	SIZE A3	SCALE 比例2:1	UNITS 單位MM

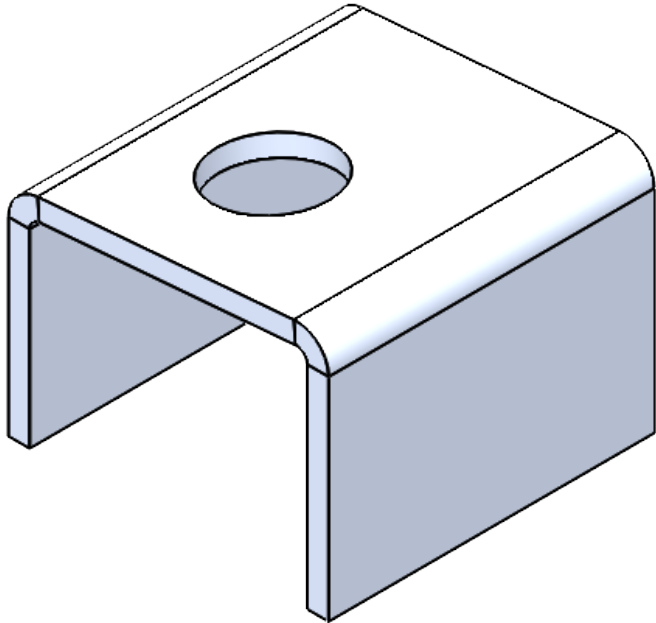
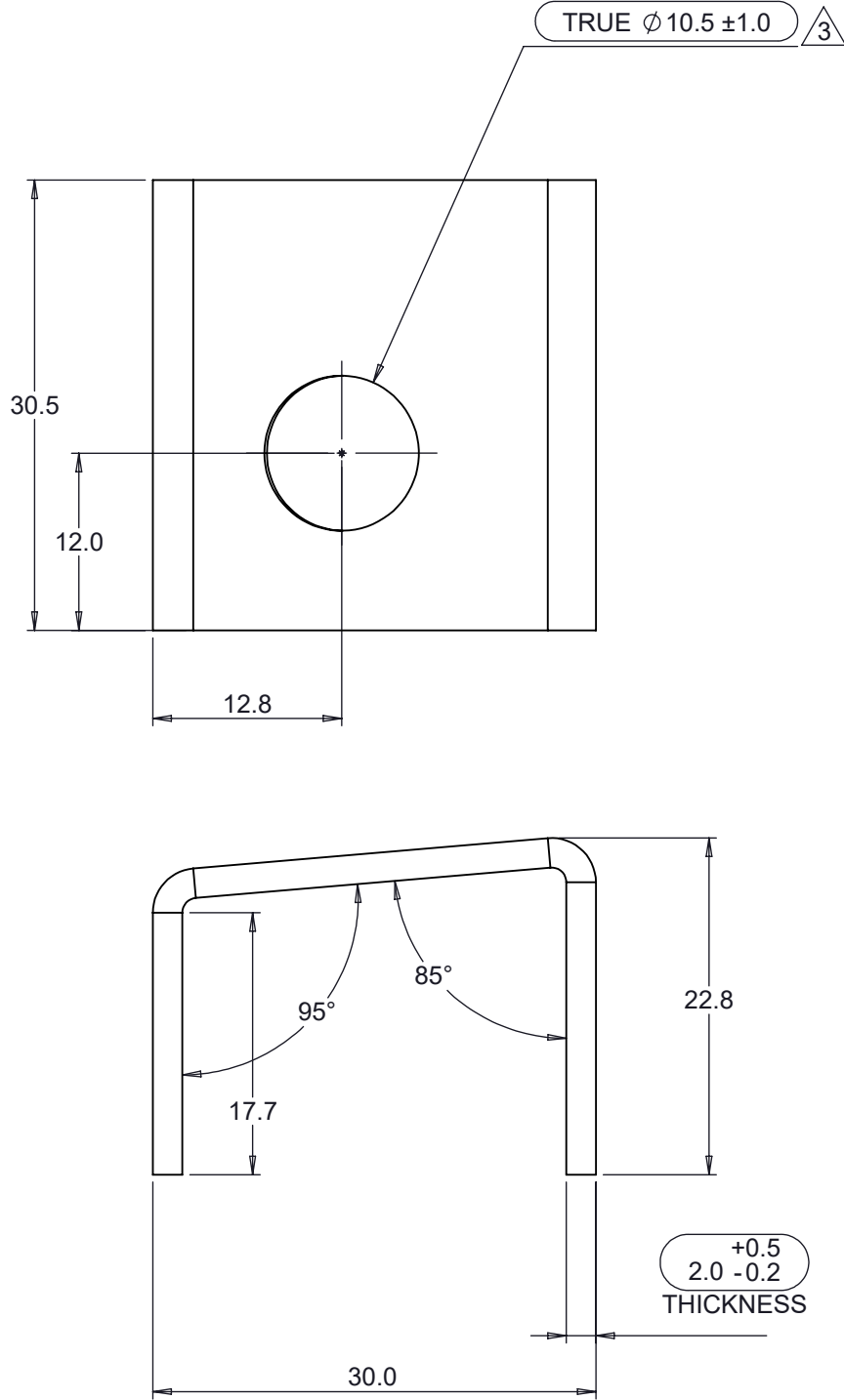
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1. MATERIAL: AL-3A21
材料

2. FINISH: NATURAL
表面處理



FLAT PATTERN
FOR SUPPLIER REFERENCE



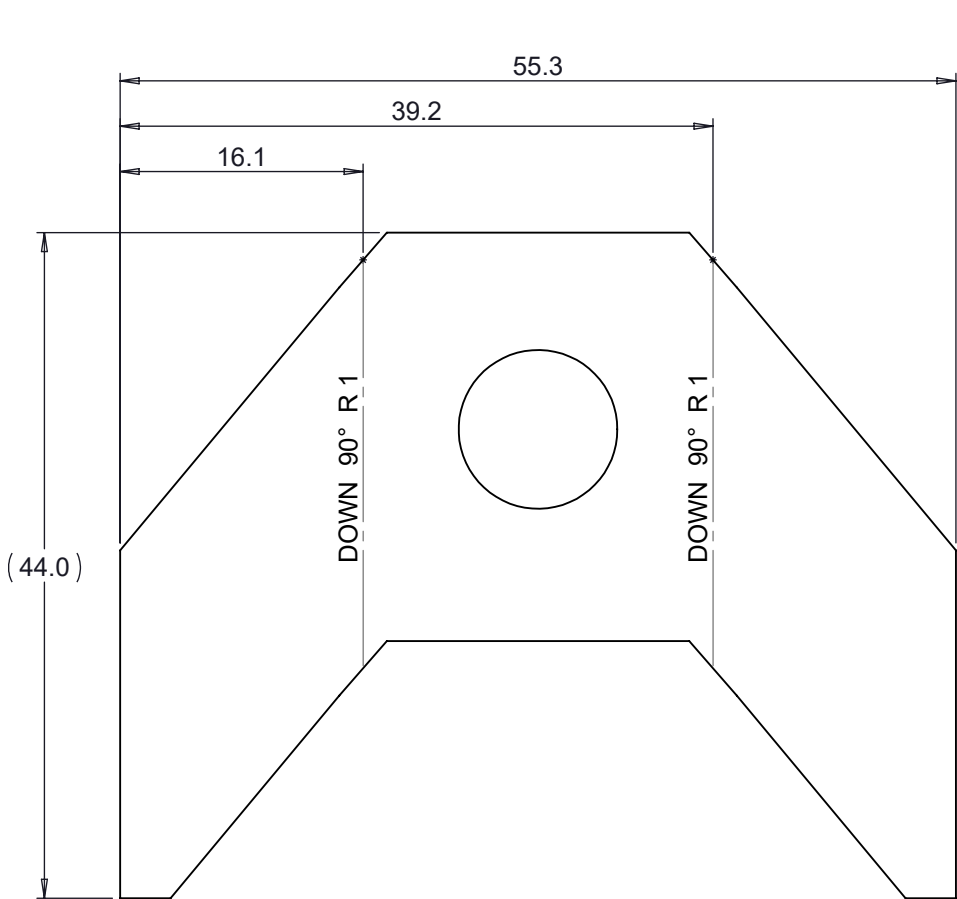
REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	NO REVISION	6/29/2021	JW
3	CHANGED DIMENSION TO CRITICAL	7/29/2021	JW

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	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO. MM5222-12			
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING		DRAWING NO. 圖號MM5222		REV. 修改 3	
	MFR.				0-150mm EACH ADDITIONAL 25mm ANGLE	<div><div>±1 mm</div><div>±0.15 mm</div><div>±1°</div></div>	SIZE A3	SCALE 比例2:1	UNITS 單位MM	SHEET 頁號15 / 27

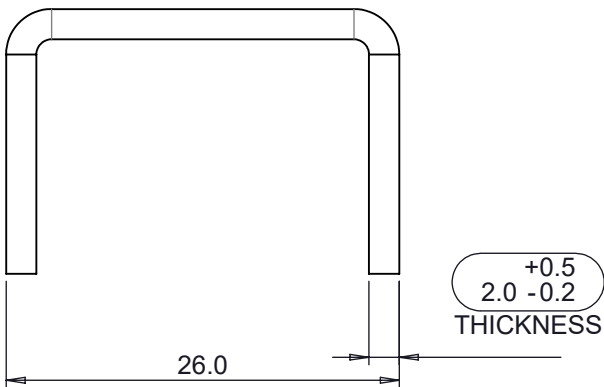
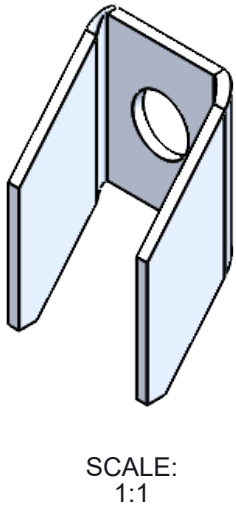
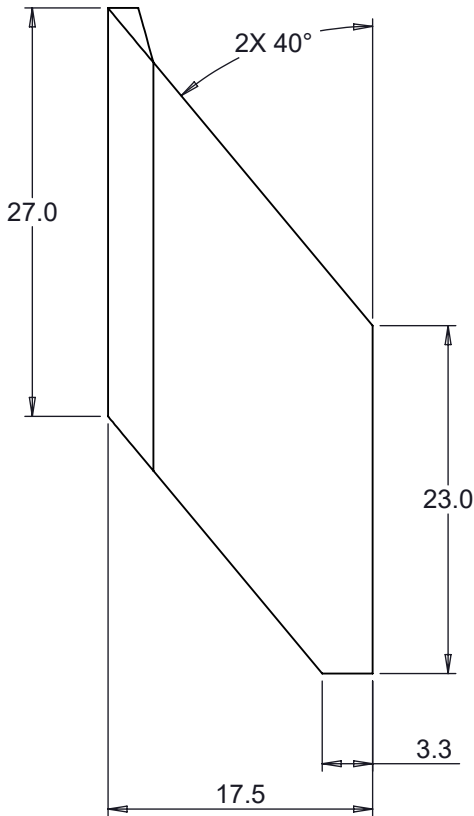
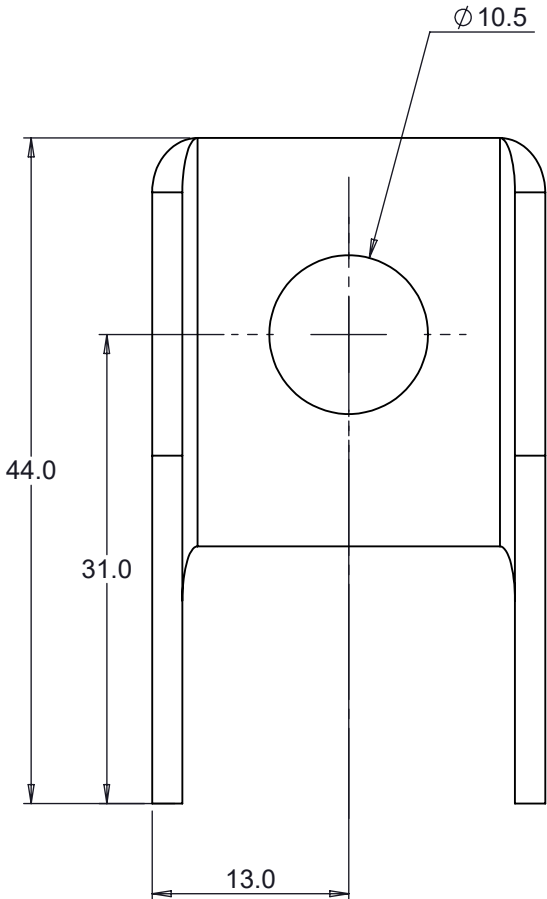
NOTES:
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1. MATERIAL: AL-3A21
材料
2. FINISH: NATURAL
表面處理

REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	CHANGED 4X DIMENSIONS	6/29/2021	JW
3	NO REVISION	7/29/2021	JW



FLAT PATTERN
FOR SUPPLIER REFERENCE



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	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO. MM5222-13			
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING		DRAWING NO. 圖號 MM5222		REV. 修改 3	
	MFR.				0-150mm EACH ADDITIONAL 25mm ANGLE	<div><div>±1 mm</div><div>±0.15 mm</div><div>±1°</div></div>	SIZE A3	SCALE 比例 2:1	UNITS 單位 MM	SHEET 頁號 16 / 27

A

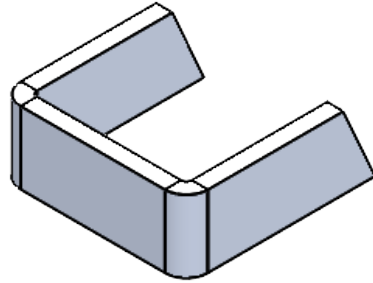
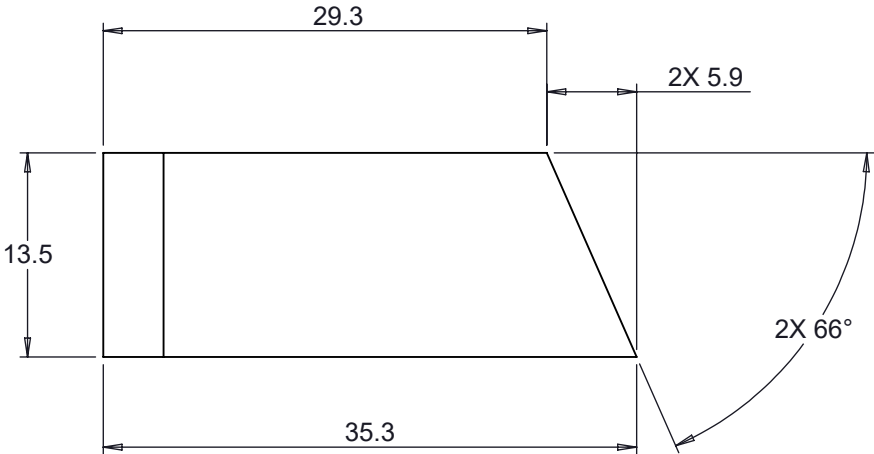
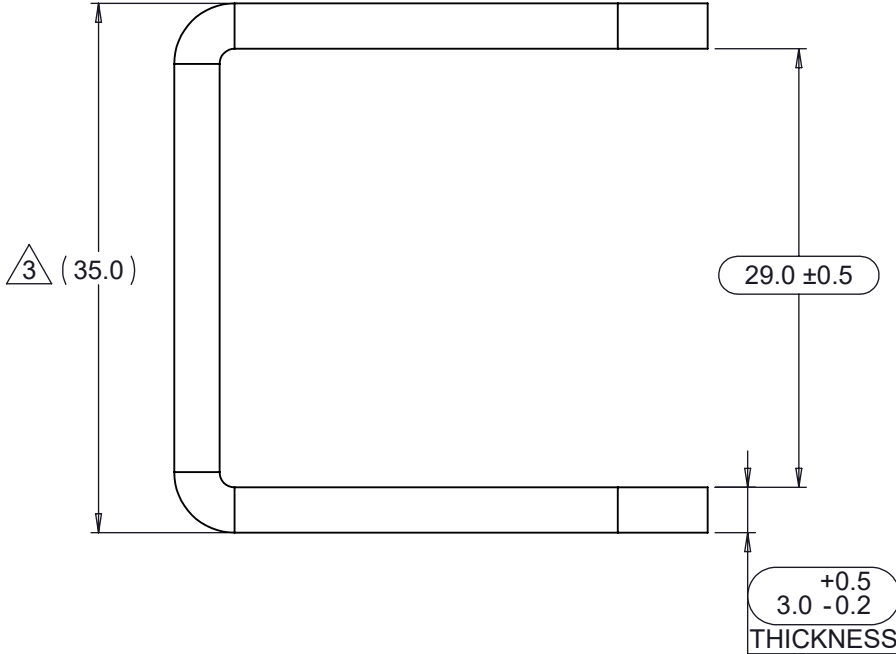
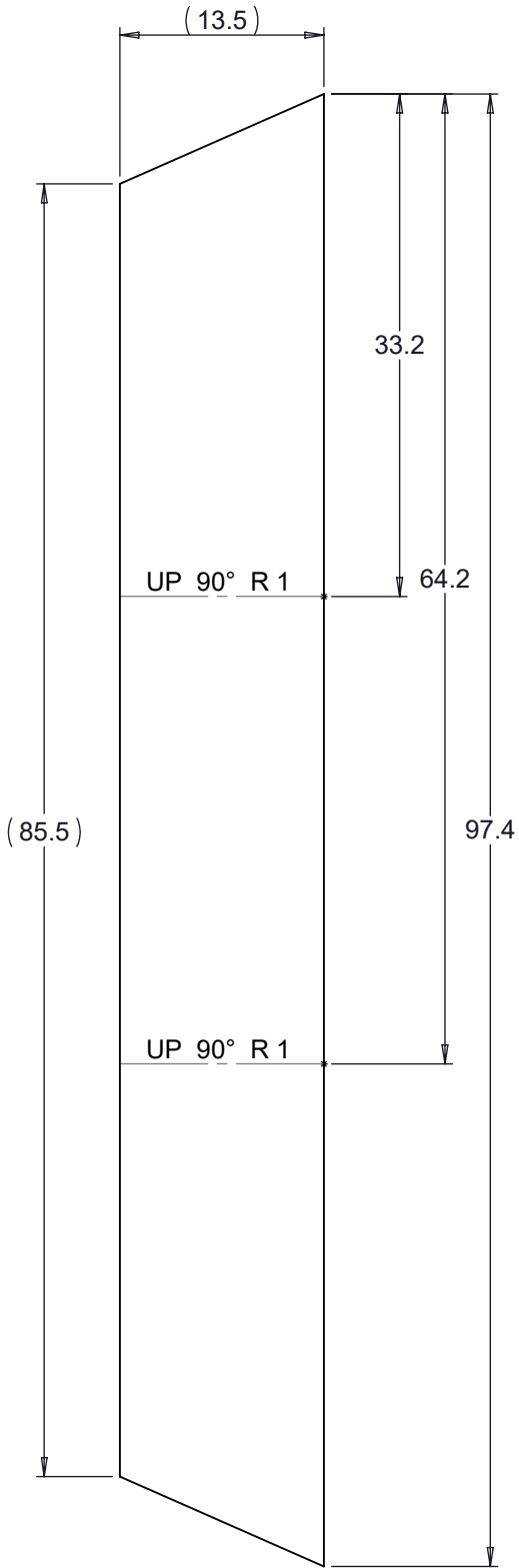
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C

D


NOTES:
筆記

1. MATERIAL: AL-3A21
材料
2. FINISH: NATURAL
表面處理



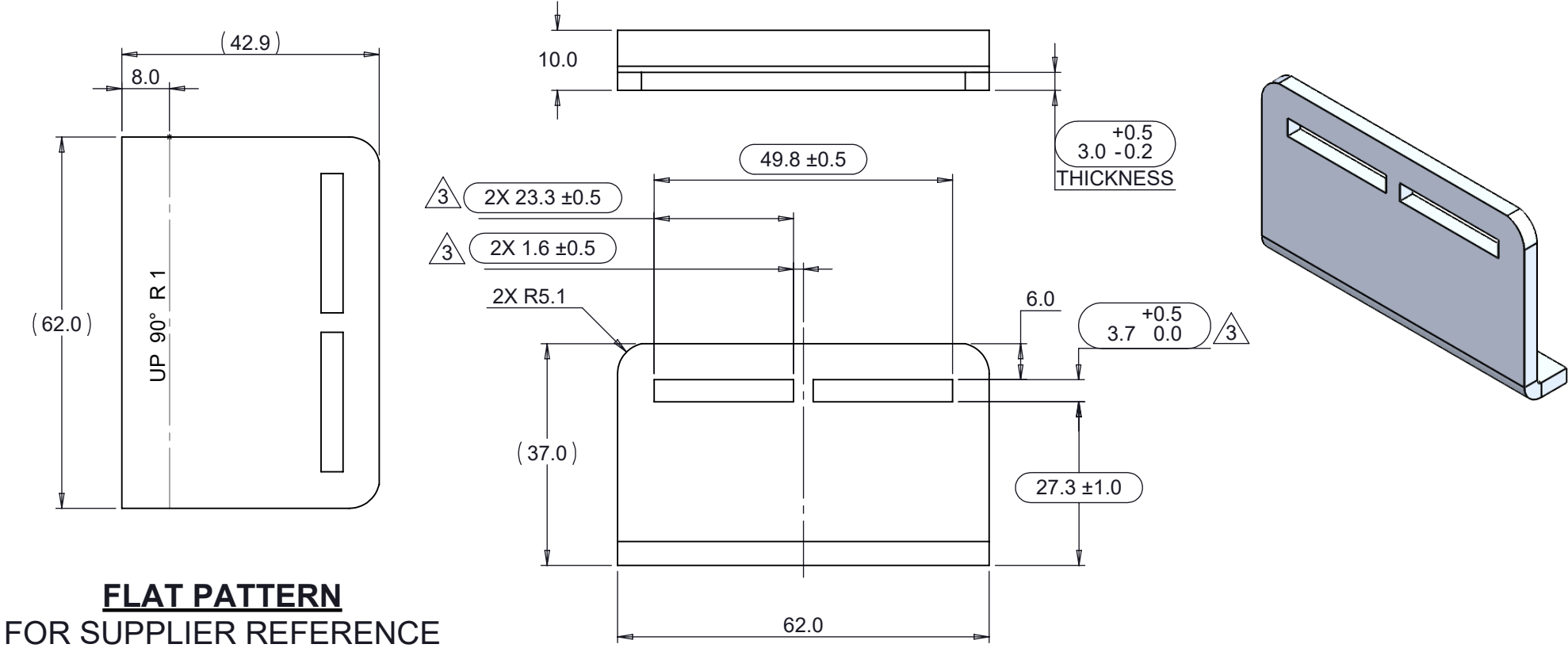
SCALE:
1:1

FLAT PATTERN
FOR SUPPLIER REFERENCE

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	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO.		MM5222-14		
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING		DRAWING NO. 圖號		MM5222		REV. 修改 3
	MFR.				0-150mm EACH ADDITIONAL 25mm ANGLE		±1 mm ±0.15 mm ±1°	SIZE A3	SCALE 比例 2:1	UNITS 單位 MM	SHEET 頁號 17 / 27

REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	06/14/2021	JW
2	NO REVISION	6/29/2021	JW
3	CHANGED 1X DIMENSION TO REFERENCE	7/29/2021	JW

NOTES: 筆記	REVISIONS 修改			
	REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
	1	NO REVISION	6/11/2021	JW
	2	CHANGED 3X TOLERANCES, ADDED 1X DIMENSION, ADDED FLANGE & FLAT PATTERN	6/29/2021	JW
1. MATERIAL: AL-3A21 材料	3	ADDED 2X DIMENSION, CHANGED 1X TOLERANCE	7/29/2021	JW
2. FINISH: NATURAL 表面處理				



FLAT PATTERN
FOR SUPPLIER REFERENCE

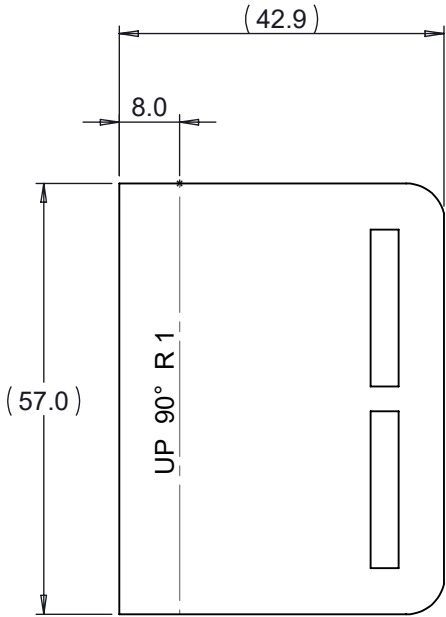
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	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD ISO 2553:2013. TOLERANCES APPLY TO PART AFTER FINISHING	PART NO. MM5222-15	
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: 0-150mm ±1 mm EACH ADDITIONAL 25mm ±0.15 mm ANGLE ±1°		DRAWING NO. MM5222	REV. 修改 3
	MFR.				SIZE A4	SCALE 1:1	UNITS MM	SHEET 18 / 27

NOTES:
筆記

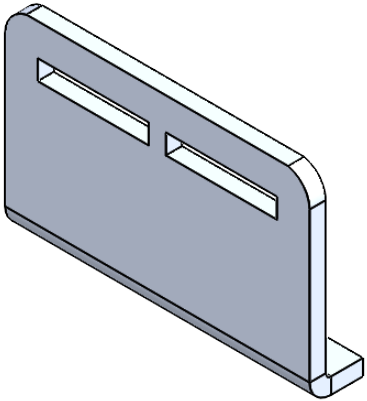
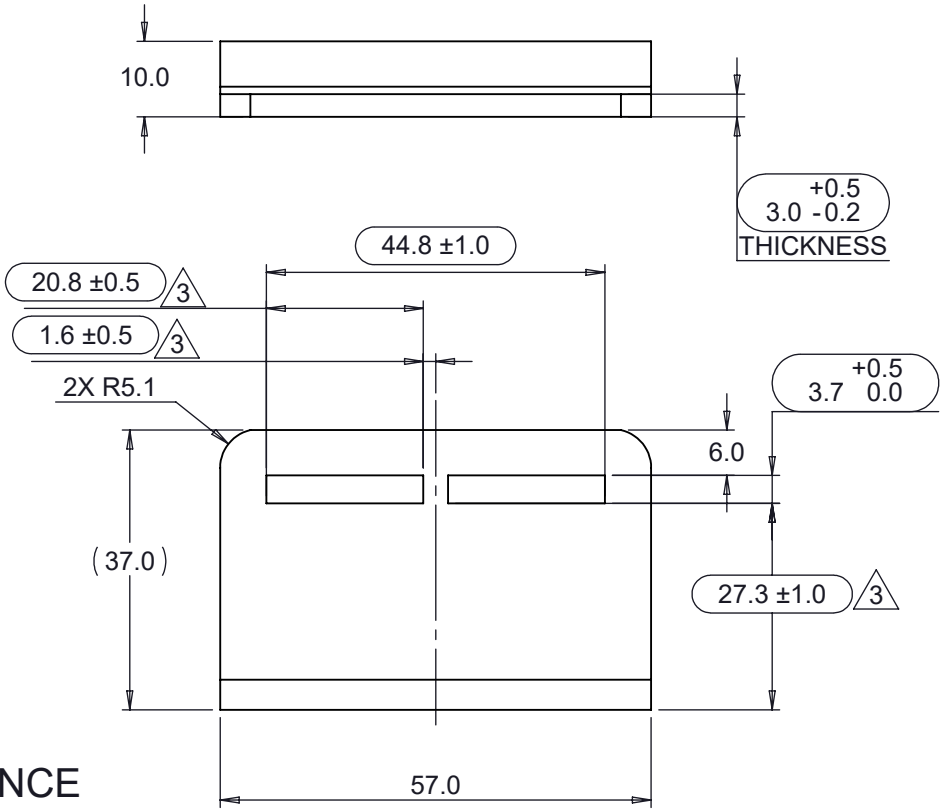
1. MATERIAL: AL-3A21
材料
2. FINISH: NATURAL
表面處理

REVISIONS 修改

REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	CHANGED 3X TOLERANCES, ADDED 1X DIMENSION, ADDED FLANGE & FLAT PATTERN	6/29/2021	JW
3	ADDED 2X DIMENSION, CHANGED 1X TOLERANCE	7/29/2021	JW



FLAT PATTERN
FOR SUPPLIER REFERENCE



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APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期
DRAWN BY	JW		6/11/2021
MM			
MFR.			

CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS:	
XX.XX	
FIRST ANGLE PROJECTION	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD ISO 2553:2013. TOLERANCES APPLY TO PART AFTER FINISHING
BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED:	
0-150mm	±1 mm
EACH ADDITIONAL 25mm	±0.15 mm
ANGLE	±1°

TITLE 標題 LOWER TRANS COOLER MOUNT 2

PART NO. MM5222-16

DRAWING NO. 圖號 MM5222

REV. 修改
3

SIZE A4 SCALE 比例 1:1 UNITS 單位 MM SHEET 頁號 19 / 27

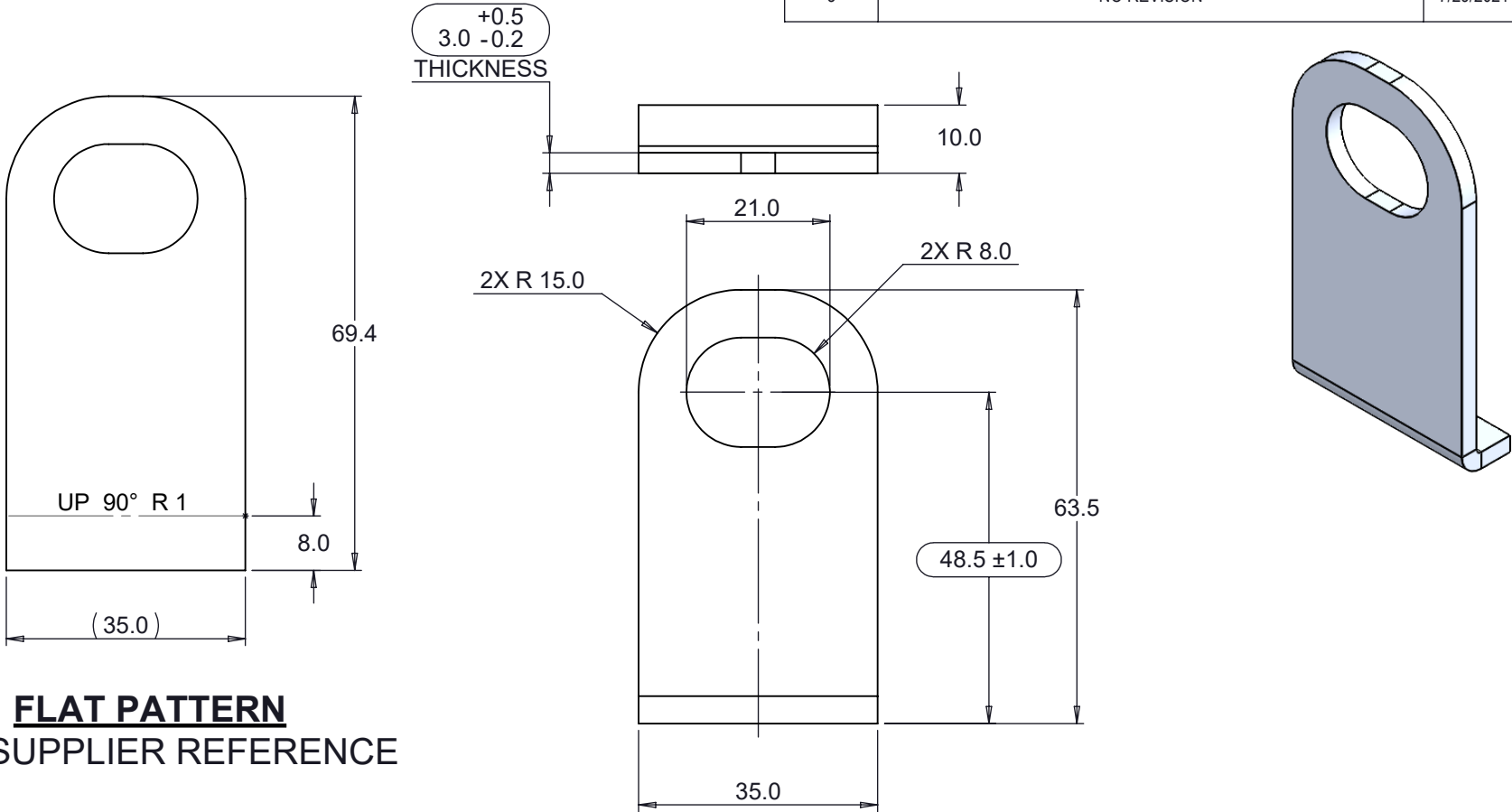
NOTES:

筆記

1. MATERIAL: AL-3A21
材料
2. FINISH: NATURAL
表面處理

REVISIONS 修改

REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	CHANGED 3X TOLERANCES, ADDED 1X DIMENSION, ADDED FLANGE & FLAT PATTERN	6/29/2021	JW
3	NO REVISION	7/29/2021	JW



FLAT PATTERN

FOR SUPPLIER REFERENCE

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APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期
DRAWN BY	JW		6/11/2021
MM			
MFR.			

CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS:

XX.XX

FIRST ANGLE
PROJECTION



INTERPRET DIMENSIONS
AND TOLERANCES PER
ASME Y14.5 - 2009. FOLLOW
WELDING STANDARD ISO
2553:2013. TOLERANCES APPLY
TO PART AFTER FINISHING

BASIC TOLERANCES
UNLESS OTHERWISE SPECIFIED:
0-150mm ±1 mm
EACH ADDITIONAL 25mm ±0.15 mm
ANGLE ±1°

TITLE
標題 LOWER A/C COOLER MOUNT 1

PART NO. MM5222-17

DRAWING NO. MM5222

REV. 修改
3

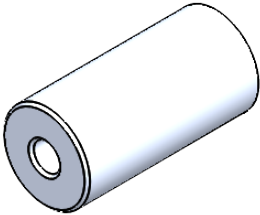
SIZE A4 SCALE 1:1 UNITS MM SHEET 20 / 27

NOTES:
筆記

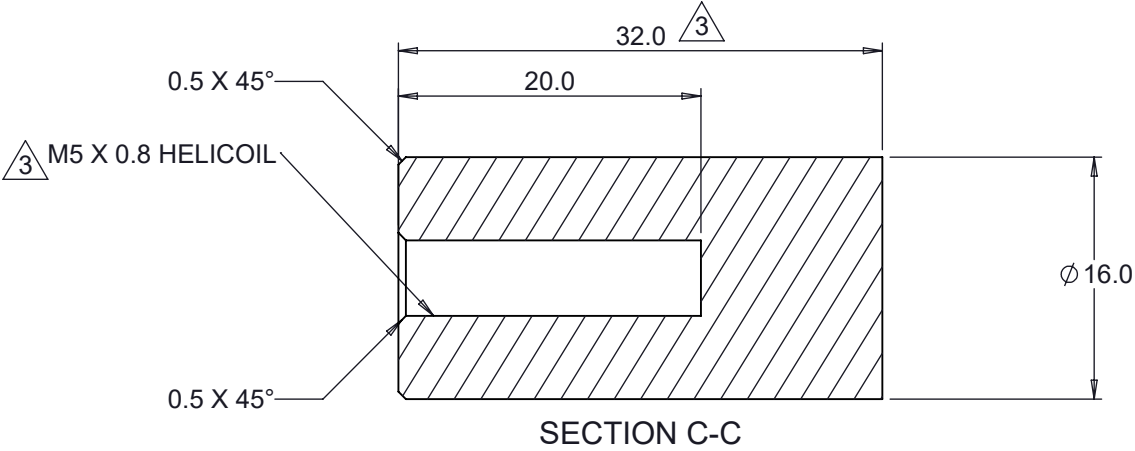
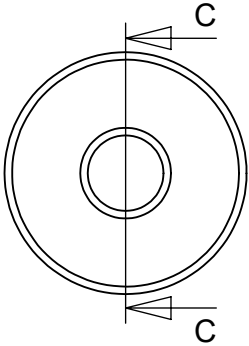
1. MATERIAL: AL-6061
材料
2. FINISH: NATURAL
表面處理

REVISIONS 修改

REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	6/11/2021	JW
2	NO REVISION	6/29/2021	JW
3	CHANGED 1X DIMENSION, ADDED HELICOIL	7/29/2021	JW



SCALE:
1:1



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APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期
DRAWN BY	JW		6/11/2021
MM			
MFR.			

CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS:	
XX.XX	
FIRST ANGLE PROJECTION	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD ISO 2553:2013. TOLERANCES APPLY TO PART AFTER FINISHING
BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED:	
0-150mm	±1 mm
EACH ADDITIONAL 25mm	±0.15 mm
ANGLE	±1°

TITLE 標題		UPPER COOLER MOUNT	
PART NO.		MM5222-19	
DRAWING NO. 圖號		MM5222	
SIZE		SCALE 比例	UNITS 單位
A4		2:1	MM
SHEET 頁號		22 / 27	

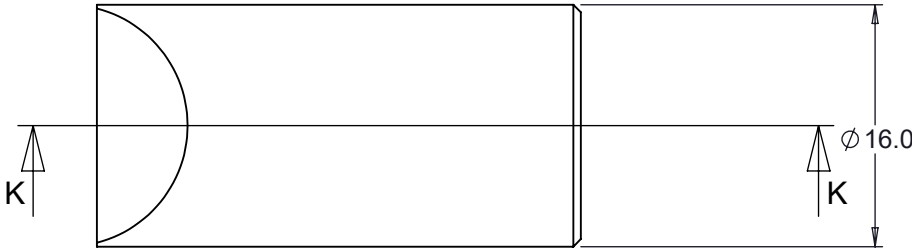
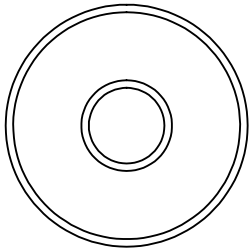
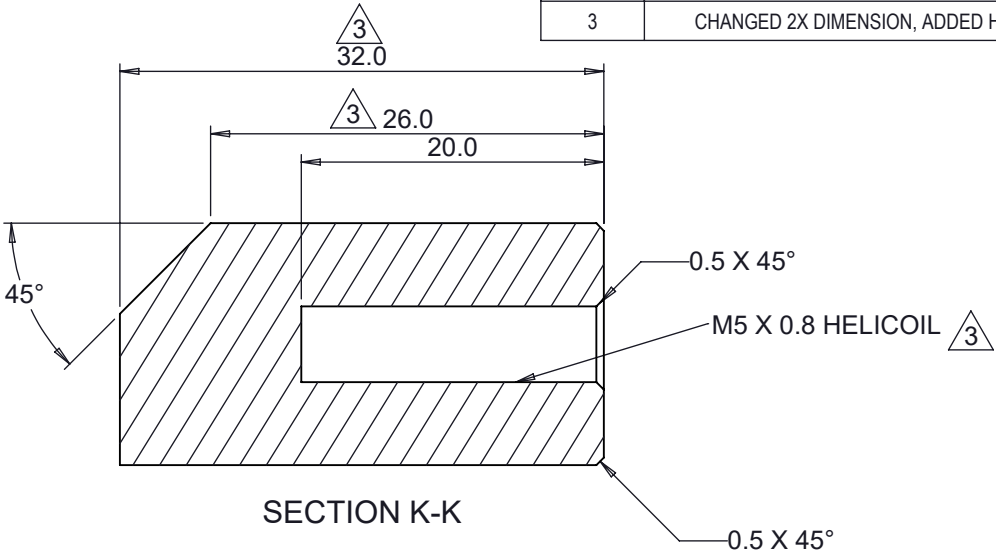
REV. 修改
3

NOTES:
筆記

1. MATERIAL: AL-6061
材料
2. FINISH: NATURAL
表面處理

REVISIONS 修改

REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
2	ADDED SHEET	6/29/2021	JW
3	CHANGED 2X DIMENSION, ADDED HELICOIL	7/29/2021	JW



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APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期
DRAWN BY	JW		6/11/2021
MM			
MFR.			

CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS:	
XX.XX	
FIRST ANGLE PROJECTION	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD ISO 2553:2013. TOLERANCES APPLY TO PART AFTER FINISHING
BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED:	
0-150mm	±1 mm
EACH ADDITIONAL 25mm	±0.15 mm
ANGLE	±1°

TITLE 標題 UPPER COOLER MOUNT 2

PART NO. MM5222-20

DRAWING NO. 圖號 MM5222

REV. 修改
3

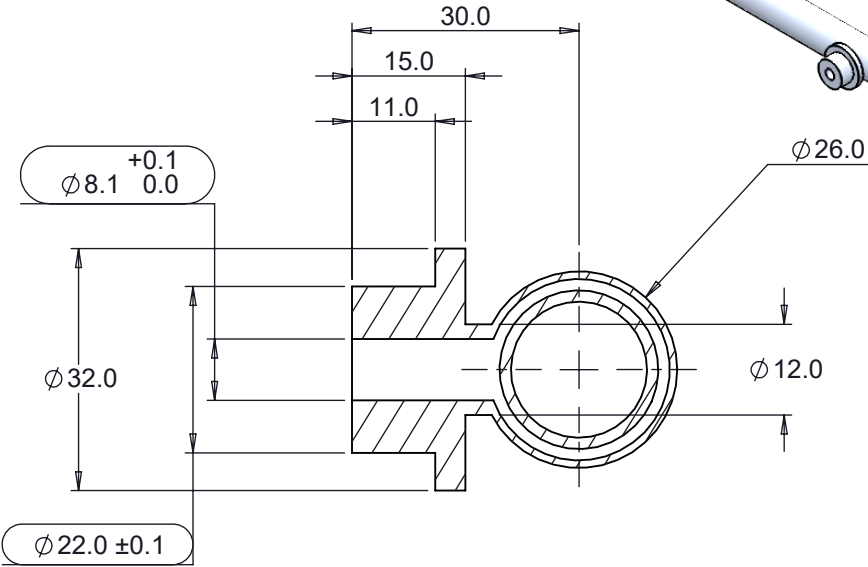
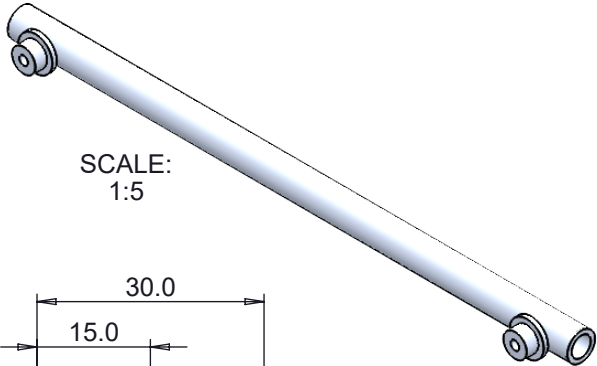
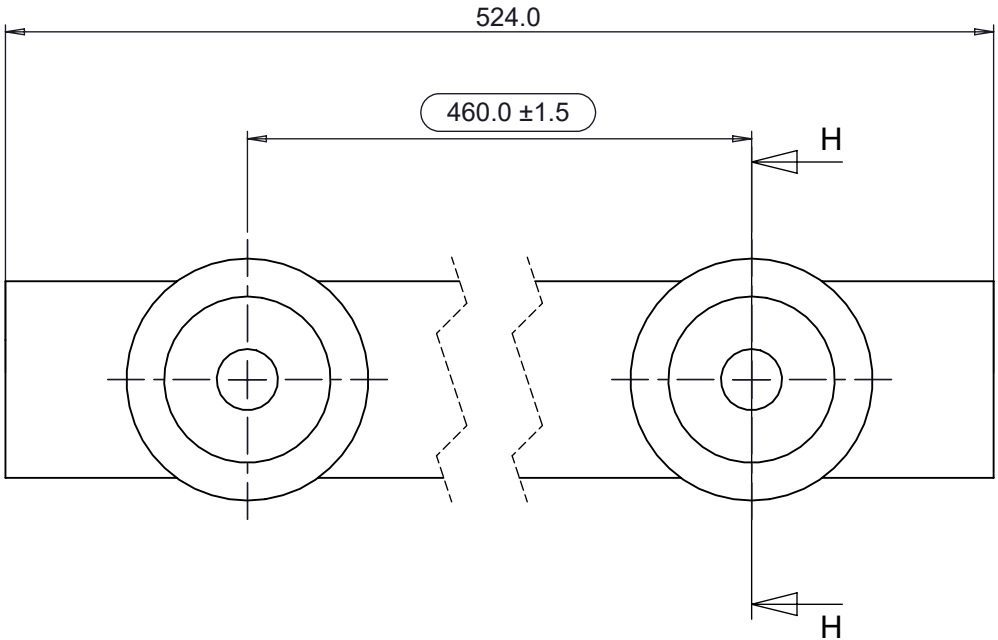
SIZE A4 SCALE 2:1 UNITS 單位 MM SHEET 頁號 23 / 27

NOTES:
筆記

1. MATERIAL: ALUMINUM
材料
2. FINISH: NATURAL
表面處理
3. DRAWING IS REFERENCE TO FITTINGS ONLY. ALL OTHER GEOMETRY WILL BE DETRMINED BY MANUFACTURER TO ENSURE MAXIMUM QUALITY
4. (SEAL ALL OPENINGS AND PRESSURE TEST AT 0.3MPA (43.5PSI) FOR 1 MINUTE. IF ANY LEAKS ARE PRESENT REJECT THE PART)

REVISIONS 修改

REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	06/11/2021	JW
2	NO REVISION	6/29/2021	JW
3	NO REVISION	7/29/2021	JW



SECTION H-H

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	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION		PART NO. MM5222-21	
	MM				INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD ISO 2553:2013. TOLERANCES APPLY TO PART AFTER FINISHING		DRAWING NO. 圖號 MM5222	
	MFR.				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: 0-150mm ±1 mm EACH ADDITIONAL 25mm ±0.15 mm ANGLE ±1°		REV. 修改 3	
5	4	3	2	1	SIZE A4	SCALE 比例 1:1	UNITS 單位 MM	SHEET 頁號 24 / 27

NOTES:

筆記

1. MATERIAL: AL-3003

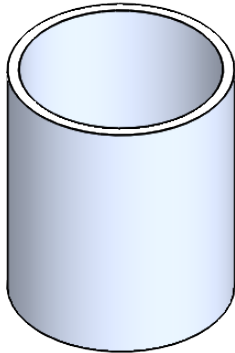
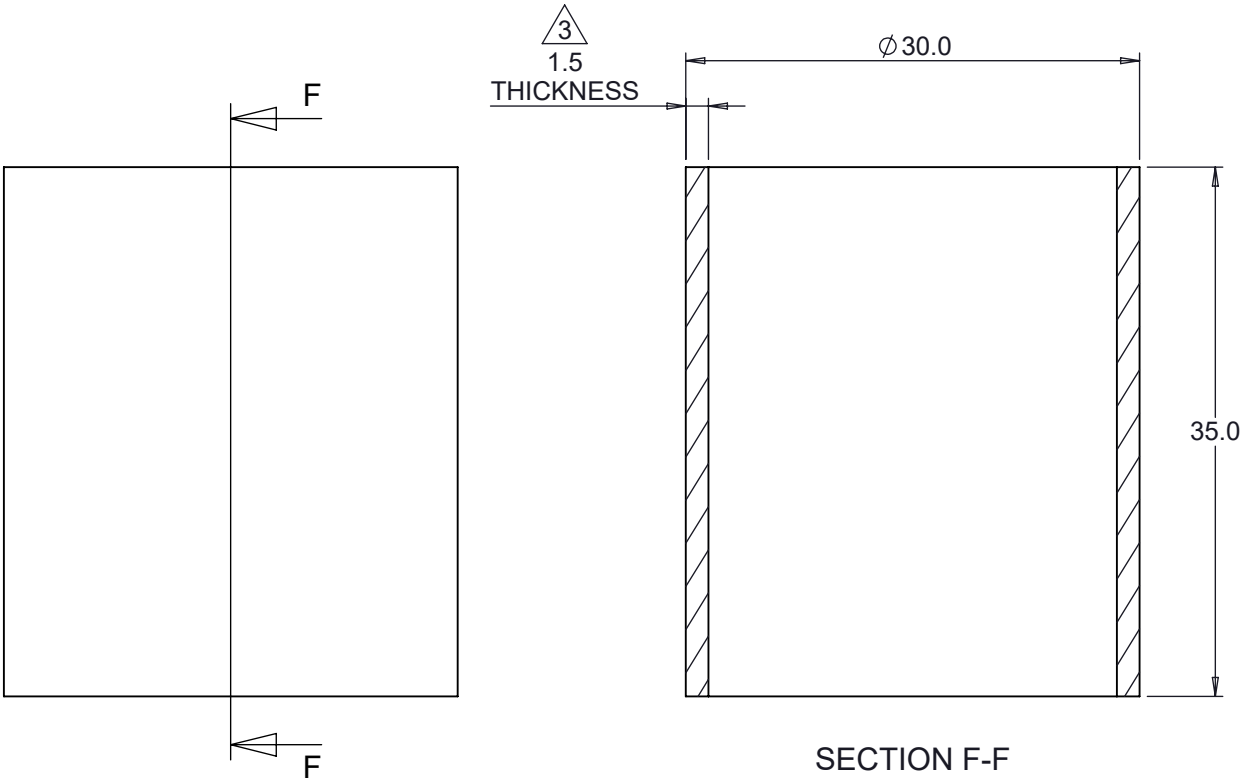
材料

2. FINISH: NATURAL

表面處理

REVISIONS 修改

REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	06/11/2021	JW
2	NO REVISION	6/29/2021	JW
3	DELETED 1X DIMENSION, ADDED 1X DIMENSION	7/29/2021	JW



SCALE
1:1

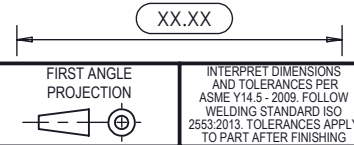
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APPROVALS 批准	NAME 名稱	SIGNATURE	DATE 日期
DRAWN BY	JW		6/11/2021
MM			
MFR.			

CRITICAL DIMENSIONS ARE DISPLAYED AS FOLLOWS:



BASIC TOLERANCES
UNLESS OTHERWISE SPECIFIED:

0-150mm	±1 mm
EACH ADDITIONAL 25mm	±0.15 mm
ANGLE	±1°

TITLE
標題 **FILL NECK TUBE**

PART NO. **MM5222-22**

DRAWING NO. **MM5222**

REV. 修改
3

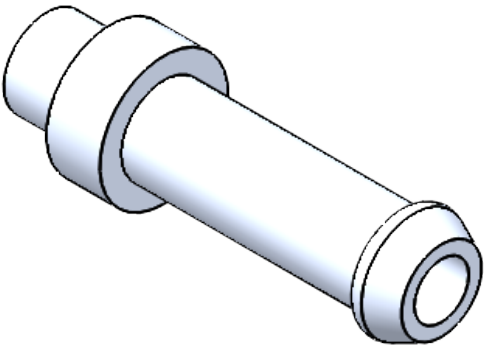
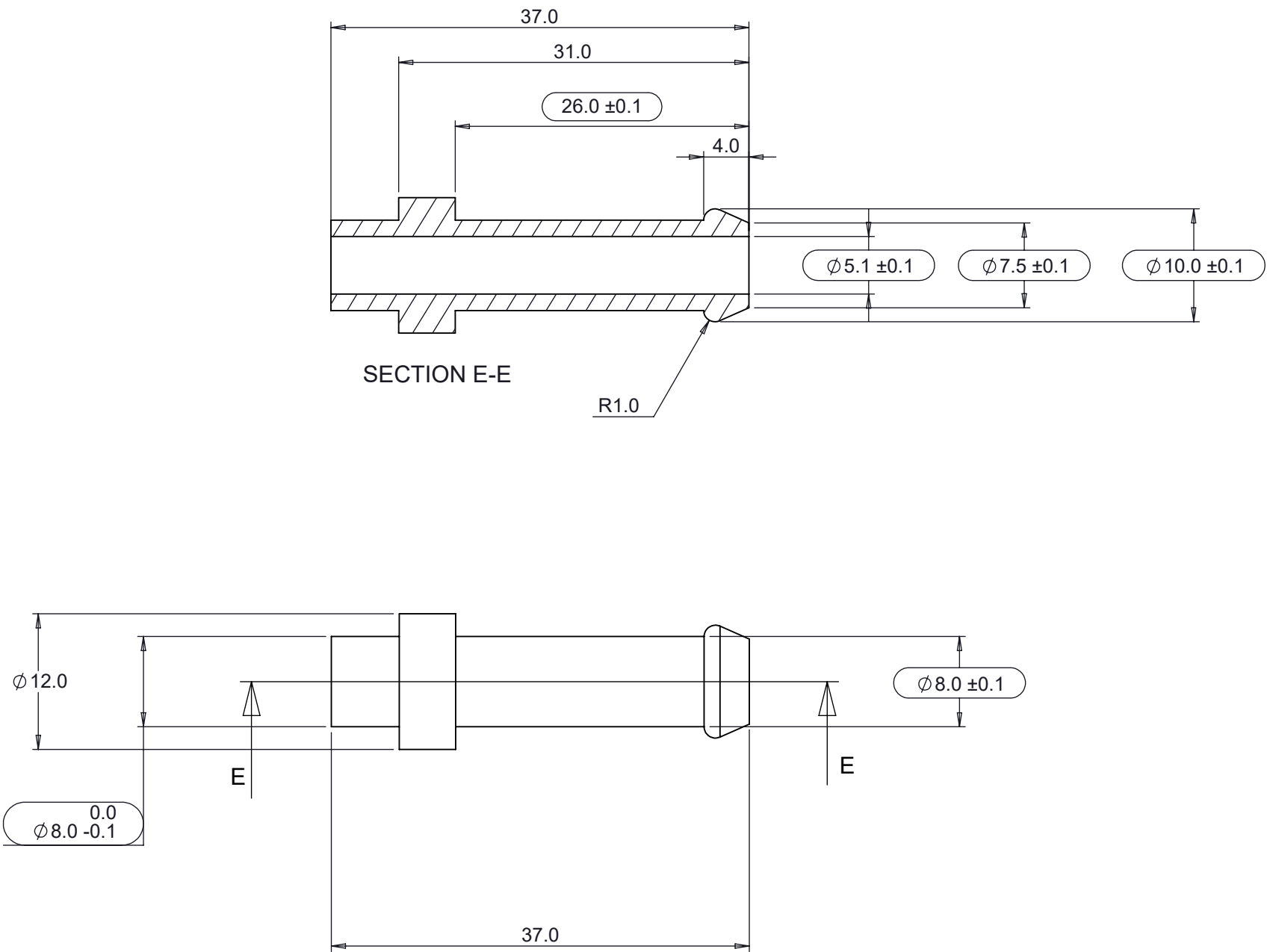
SIZE	A4	SCALE 比例	2:1	UNITS 單位	MM	SHEET 頁號	25 / 27
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NOTES:
筆記

1. MATERIAL: AL-6061
材料

2. FINISH: NATURAL
表面處理

REVISIONS 修改			
REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
1	NO REVISION	06/11/2021	JW
2	CHANGED 1X DIMENSION	6/29/2021	JW
3	NO REVISION	7/29/2021	JW



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	DRAWN BY	JW		6/11/2021	FIRST ANGLE PROJECTION <div></div>	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD IS 2553:2013	PART NO. MM5222-23			
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: TOLERANCES APPLY TO PART AFTER FINISHING		DRAWING NO. 圖號MM5222		REV. 修改 3	
	MFR.				0-150mm EACH ADDITIONAL 25mm ANGLE	<div><div>±1 mm</div><div>±0.15 mm</div><div>±1°</div></div>	SIZE A3	SCALE 比例2:1	UNITS 單位MM	SHEET 頁號26 / 27

<div>NOTES: 筆記</div> <div>1. MATERIAL: PRINTABLE HEAVY INDEX CAR, USE "AVERY" BRAND PRODUCT 5388 OR SIMILAR 材料 2. FINISH: WHITE 表面處理 3. TYPEFACE: ARIAL 4. TEXT COLOR: BLACK</div>					REVISIONS 修改			
					REV. 修號	DESCRIPTION 說明	DATE 日期	CHECKED BY 檢查人員
					3	ADDED SHEET	7/29/2021	JW

[3.00in]
76.2mm

[5.00in]
127mm

IMPORTANT!

RADIATOR CAP NOT INCLUDED

MUST USE OEM RADIATOR CAP
WITH THIS RADIATOR. NOT USING
OEM CAP MAY RESULT IN FAILURE
OF RADIATOR/COOLING SYSTEM.

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	DRAWN BY	JW		6/11/2021		FIRST ANGLE PROJECTION	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 - 2009. FOLLOW WELDING STANDARD ISO 2553:2013. TOLERANCES APPLY TO PART AFTER FINISHING	PART NO.		MM5222-24		
	MM				BASIC TOLERANCES UNLESS OTHERWISE SPECIFIED: 0-150mm ±1 mm EACH ADDITIONAL 25mm ±0.15 mm ANGLE ±1°	DRAWING NO.		MM5222	REV. 修改 3			
	MFR.					SIZE	A4	SCALE 比例	2:1	UNITS 單位	MM	SHEET 頁號
	5	4	3	2	1							

D

C

B

A