



Technical Information Service Report

TIS Report: 80125045

Date: July 06, 2022

CLIENT: Microcyber Corporation
17-8 Wensu Street,
Hunnan New District
Shenyang, Liaoning 110179
China

Attention: Mrs. Guangshu Jin

Issued by: *Selina Xie*
Selina Xie

SUBJECT: Custom Testing for WirelessHART Smart Gateway, model G1100, Environmental Type Rating 4X.

APPLICABLE REQUIREMENTS:

CSA C22.2 No. 94.2:20
UL 50E (3rd Edition)

- Enclosures for electrical equipment, environmental considerations
- Enclosures for electrical equipment, environmental considerations

ASSESSMENT:

Please supply a copy of this information when filing an application for CSA Certification related to the SUBJECT, as it may aid the investigation.

General:

- 1) G1100 consists of two parts: main unit and antenna.

1. Main unit: Refer to Att1 for details. Comprised of the following parts.

(a) Main cover:

Material: Cast Aluminum Alloy.

Dimensions: Approx. 283mm x 210mm x 64mm, 270mm x 195 x 34mm, thickness min. 3 mm.

Mounting: Top and bottom enclosure are secured by threaded connection.

(b) Label:

Material: Stainless steel.

THIS REPORT DOES NOT AUTHORIZE THE USE OF THE CSA MARK ON THE SUBJECT PRODUCTS.

The completion of this form does not imply certification or approval of the "SUBJECT" product nor any features or components thereof.

Dimensions: model 304 0Cr18Ni9DQ, Ningbo Dayang Enclosures Co., Ltd, Size: 148 mmx61 mmx1.5mm, Thickness: 1.5mm

(c) Screws for fixing label:

Material: Stainless steel.

Dimensions: model 304 0Cr18Ni9DQ, Ningbo Dayang Enclosures Co., Ltd, Size: 4-M3 x 1

(d) Screws for fixing main enclosure:

Material: Stainless steel.

Dimensions: model 304 0Cr18Ni9DQ, Ningbo Dayang Enclosures Co., Ltd, Size: 4-M5 x 1.5

(e) Screws for fixing Screws for hinge:

Material: Stainless steel.

Dimensions: model 304 0Cr18Ni9DQ, Ningbo Dayang Enclosures Co., Ltd, Size: 2-M5 x 1-47

(f) Screws for fixing Screws for fixing other parts 1:

Material: Stainless steel.

Dimensions: model 304 0Cr18Ni9DQ, Ningbo Dayang Enclosures Co., Ltd, Size: 8-M5 x 1 or 4-M8 x 50

(g) Gasket: Accepted by Gasket tests

Material: Silicone (model RBB-6300-50), manufactured by Dow Toray Co., Ltd., red color. Refer to A111 for details.

Dimensions and location: as table below,

Part	Location (Seal the gap between)	Overall Dimensions		
		OD(mm)	ID (mm)	Thk. (mm)
Gasket (for main enclosure)	Top and bottom enclosure	257	184	3.0

2. Antenna: Refer to Att1 for details. Comprised of the following parts.

(f) O-Ring: Accepted by Gasket tests.

Material: Silicone (model RBB-6300-50), manufactured by Dow Toray Co., Ltd., red color. Refer to A111 for details.

Dimensions and location: as table below,

Part	Location (Seal the gap between)	Overall Dimensions	
		Overall Size (mm)	Cross-section Size (mm)
O-Ring 1	Between antenna and main unit connection	∅ 20.3	∅ 2.65
O-Ring 2	Between antenna and main unit connection	∅ 15.5	∅ 1.5

(g) Antenna plastic enclosure:

Material: PC, V-0, f(1), 115 ° C

Dimensions: model 6555 + (z)(f1), Covestro Deutschland AG, Min. thickness: 2.5mm, Thickness: 1.5mm

(h) Antenna - cap:

Material: Stainless steel.

Dimensions: model 304 0Cr18Ni9DQ, Ningbo Dayang Enclosures Co., Ltd, Size: Φ 22.5 mm x14.5 mm,
Thickness: 1.5mm(i) Antenna - Base:

Material: Stainless steel.

Dimensions: model 304 0Cr18Ni9DQ, Ningbo Dayang Enclosures Co., Ltd, Size: Φ 21.8 mm x37 mm,
Thickness: 1.5mm(j) Glue for fixing antenna terminal:

Material: Silicone

Dimensions: model CN-8617(f1), Dow Silicones Corp, Silicone, f(1), white, V-0 or V-1, 105°C

TEST HISTORY

The following tests were conducted in CCIC-CSA International Certification Co., Ltd. – Guangzhou Lab.
CCIC-CSA International Certification Co., Ltd. – Guangzhou Lab
No. 10, Ke Yan Road, Science Park,
Guangzhou, 510663,
CHINA

The following tests were requested by the client below unless otherwise stated:

According to CSA C22.2 No. 94.2:20 & UL 50E (3rd Edition)				
	General	8.1	-	General parts
	Drip test	8.2		
	☐ 8.2.1 Method A		N/A	Not outlined in Table 2
	☐ 8.2.2 Method B			
	Rain test	8.3	N/A	Not outlined in Table 2
	Dust test	8.4		
	☐ 8.4.1.1 Outdoor dust test – Dust blast method			
	☐ 8.4.1.2 Outdoor dust test – Hose method			
	☐ 8.4.2.1.1 Indoor circulating dust test			
	☐ 8.4.2.1.2 Indoor circulating dust test – Atomized water method A		N/A	Not outlined in Table 2
	☐ 8.4.2.2.1 Indoor settling dust test			
	☐ 8.4.2.2.2 Indoor settling dust test – Atomized water method B			
	External icing test	8.5	N/A	No external cavities to trap water
1	Hosedown test	8.6	P	
	Indoor corrosion protection	8.7	N/A	Not outlined in Table 2
	Outdoor corrosion protection	8.8		
	☐ 8.8.1 600-hour salt spray test			
	☐ 8.8.2 1200-hour moist carbon dioxide-sulphur dioxide-air test		N/A	Aluminum enclosure, and Stainless steel for other metallic parts (including screws, bases, caps and label), not ferrous enclosures
2	Additional corrosion protection for enclosure type 3X, 3RX, 3SX, 4X and 6P	8.9	N/A	Aluminum enclosure, and Stainless steel for other metallic parts (including screws, bases, caps and label),

				not ferrous enclosures
	Submersion test	8.10	N/A	Not outlined in Table 2
	Pressure test	8.11		
	☐ 8.11.1 Internal pressurization method		N/A	Not outlined in Table 2
	☐ 8.11.2 External pressurization method			
	Oil exclusion test	8.12	N/A	Not outlined in Table 2
3	Gasket tests	8.13		
	☒ 8.13.2 Gasket – Tensile strength and elongation test		P	
	☐ 8.13.5 Gasket performance after aging test (alternate to 8.13.2)			
	☒ 8.13.3 Gasket – Compression test			
	☐ 8.13.4 Gasket – Oil immersion test			
	Rod entry test	8.14	N/A	Not outlined in Table 2
	Misalignment test	8.15	N/A	Not outlined in Table 2
	Water exposure and immersion	8.16	N/A	Not outlined in Table 2
	Sealing compounds tests	8.17	N/A	Not outlined in Table 2

Note: P= Pass, F= Fail, N/A= Not Applicable

Samples for test:

Test	Sample Details
Hosedown test	Sample 1: Blind fitting was connected to the threaded opening during tests
Gasket tests	Gasket 1: Used as O-Ring Material: Silicone (RBB-6300-50), manufactured by Dow Toray Co., Ltd., red color. Size: 25.3 mm wide by 210 mm long. Quantity: 20 Gasket 1: Used as gasket. Material: Silicone (RBB-6300-50), manufactured by Dow Toray Co., Ltd., red color. Size: 25.3 mm wide by 210 mm long. Quantity: 20

Results were in compliance and test reports are attached to the Engineering Report in TIC and Main File.

---End of Report---

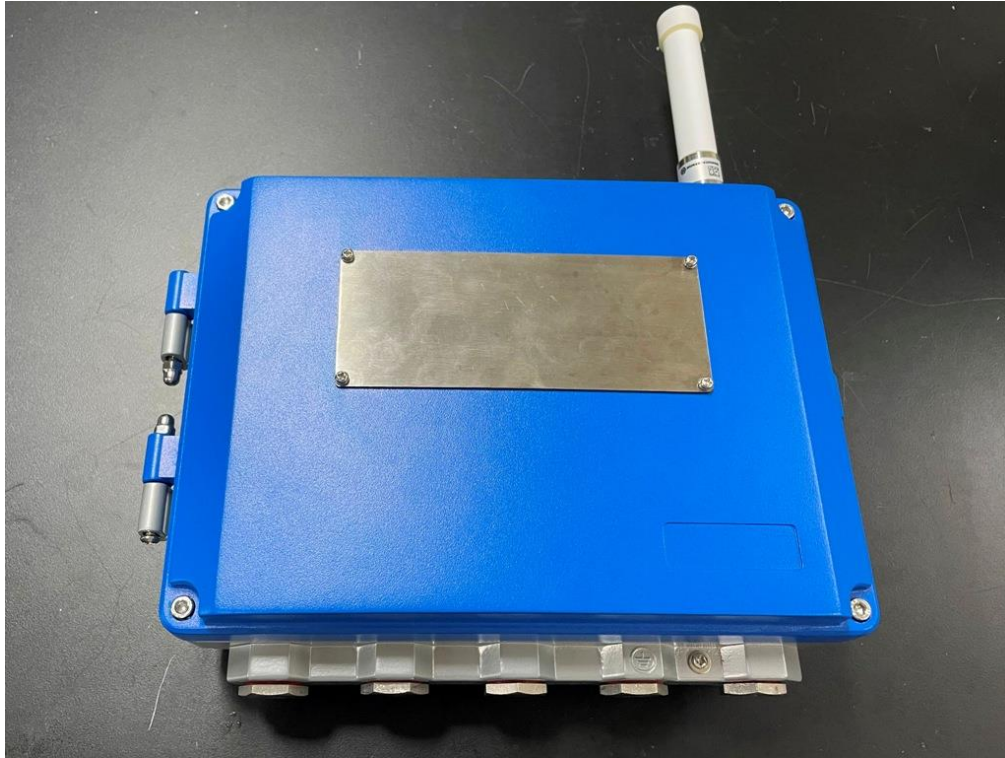


Photo 1 whole unit (this photo is not the final for marking)

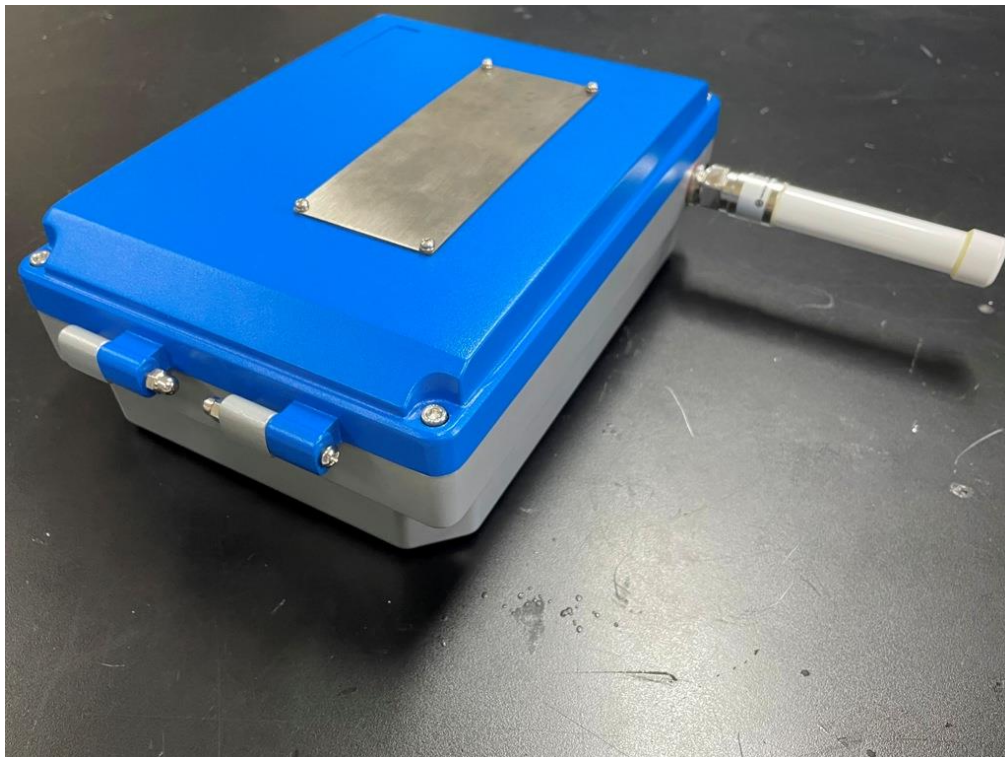


Photo 2 whole unit (this photo is not the final for marking)

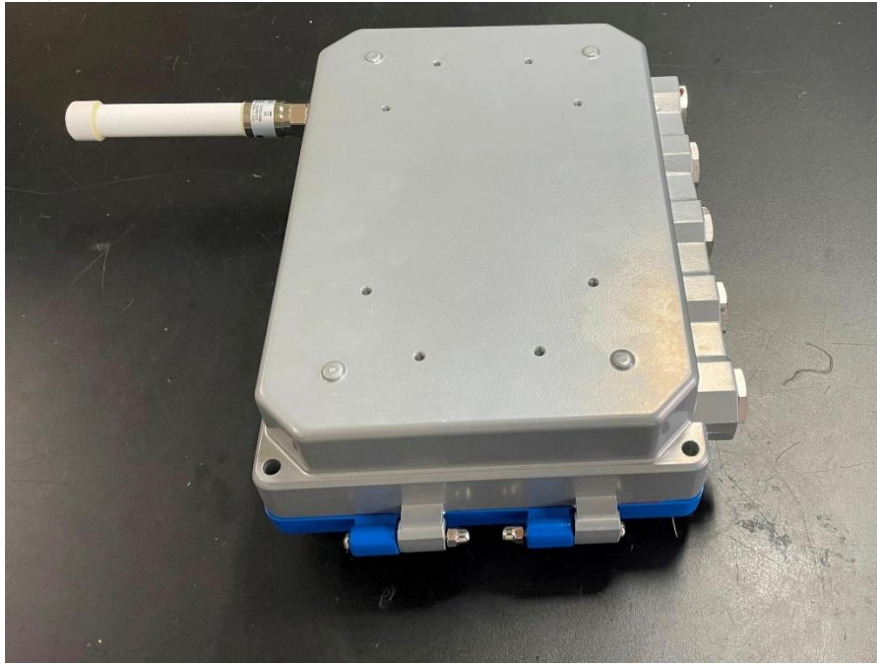


Photo 3 whole unit



Photo 4 whole unit (O ring between antenna and main unit connection)



Photo 5

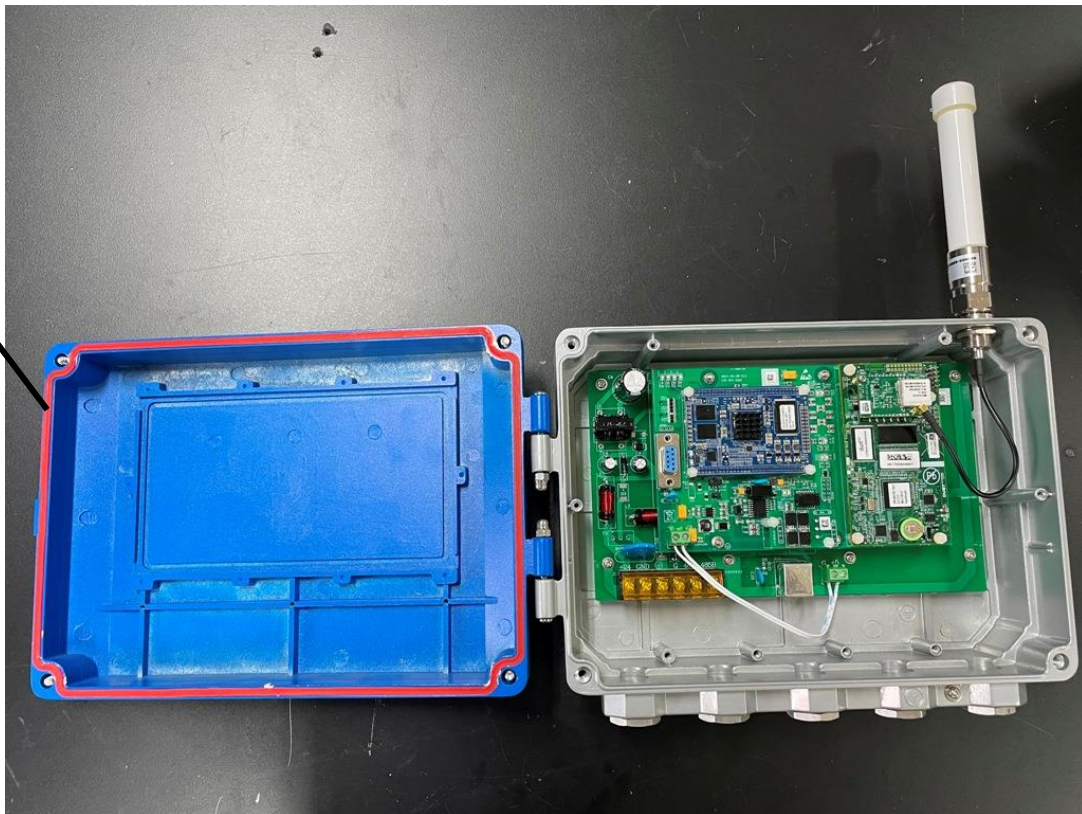


Photo 6 internal (gasket between main parts)



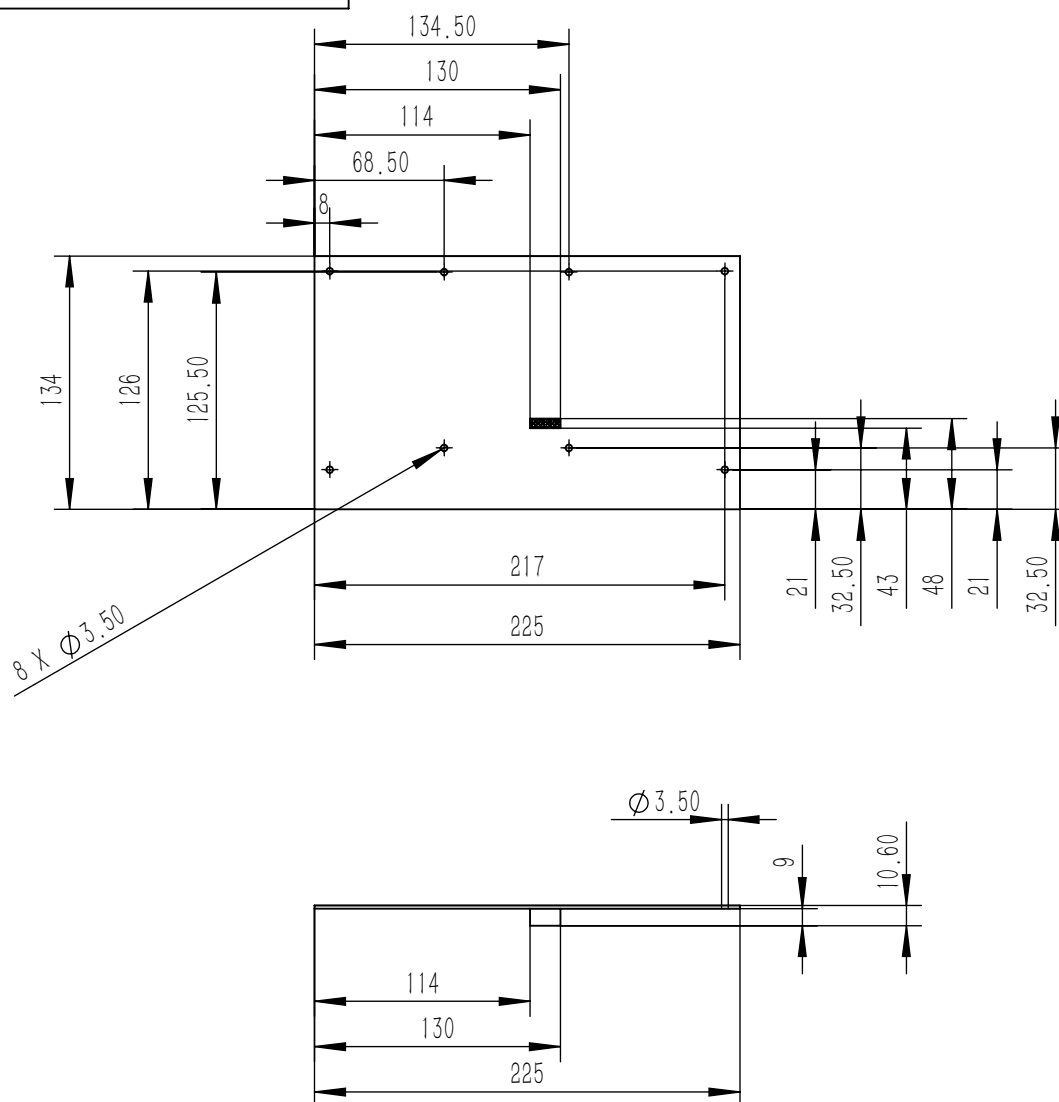
Photo 7 internal (O ring between antenna and main unit connection)



Photo 8 antenna

G1100-20-05

3.2



Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989
6. Clearances should be at least 0.8mm and creepage distances should be at least 1.3mm

Shared(General)Parts Register

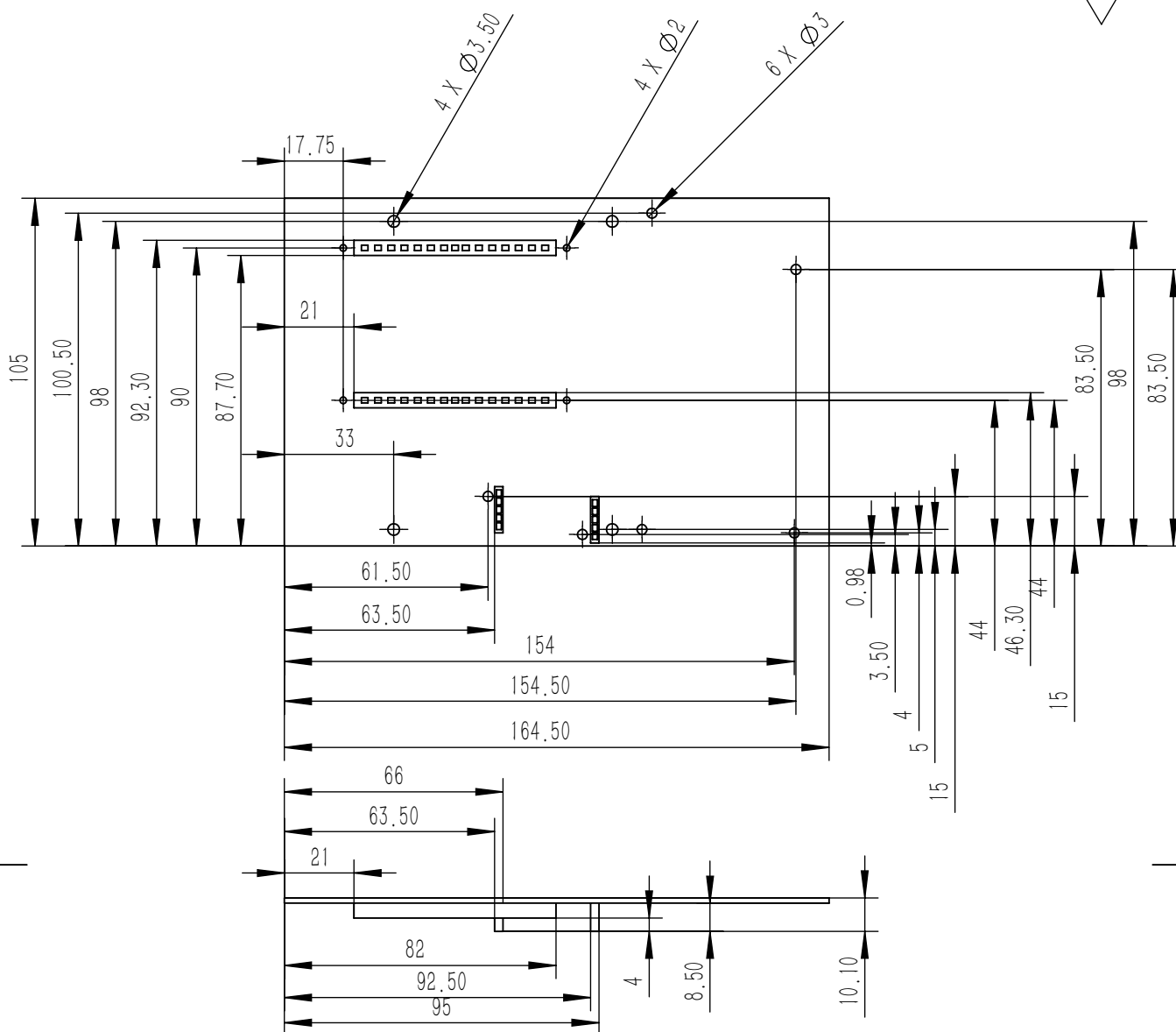
Base Chart NO.

Former Based Chart No.

Signed by

Date

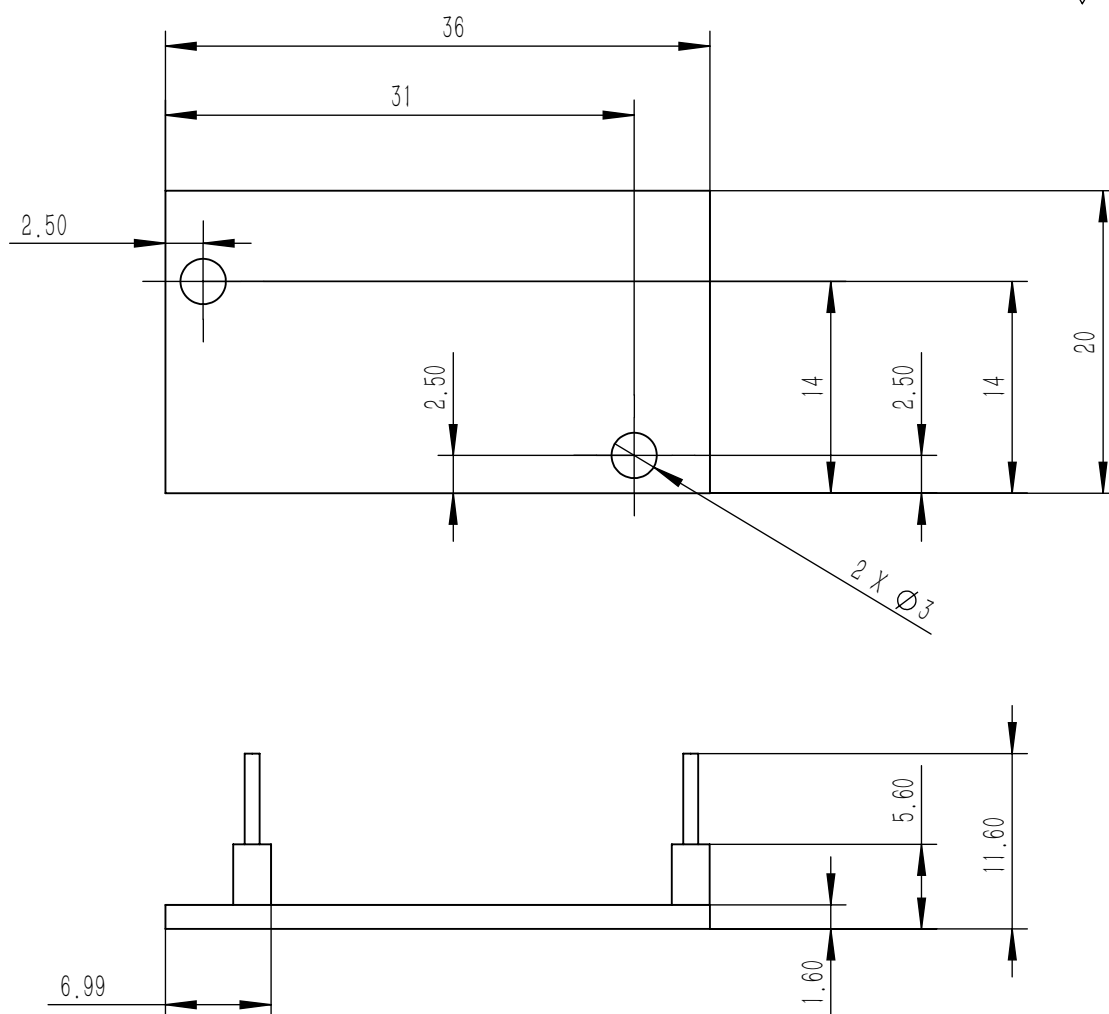
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Mark	NO. of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale	GW-WH-0002 Circuit Board	
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			Craft	sun hui peng	9.6.2022	G1100-20-05			Procedure DWG	
Verify	Kang Kai	9.6.2022	Verify	lin xun zeng	9.6.2022					
			Approve	Sun Jia	9.6.2022	Total 25	NO.7	Version V1.0	Substitution	



1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989
6. Clearances should be at least 0.8mm and creepage distances should be at least 1.3mm

							PEB			Microcyber Corporation			
Base Chart NO.													
Formaer Based Chart No.							Stage Marker		Quality	Scale	GW-WH-0001 Circuit Board		
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				Craft	sun wen peng	9.6.2022	G1100-20-04			Procedure DWG			
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				Approve	Sue Jin	9.6.2022	Total 25	NO.6	Version V1.0	Substiution			

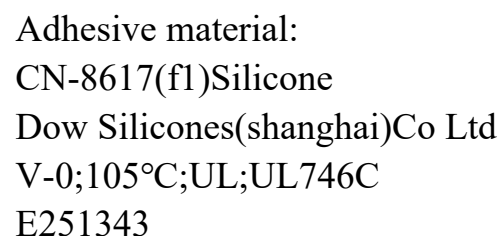
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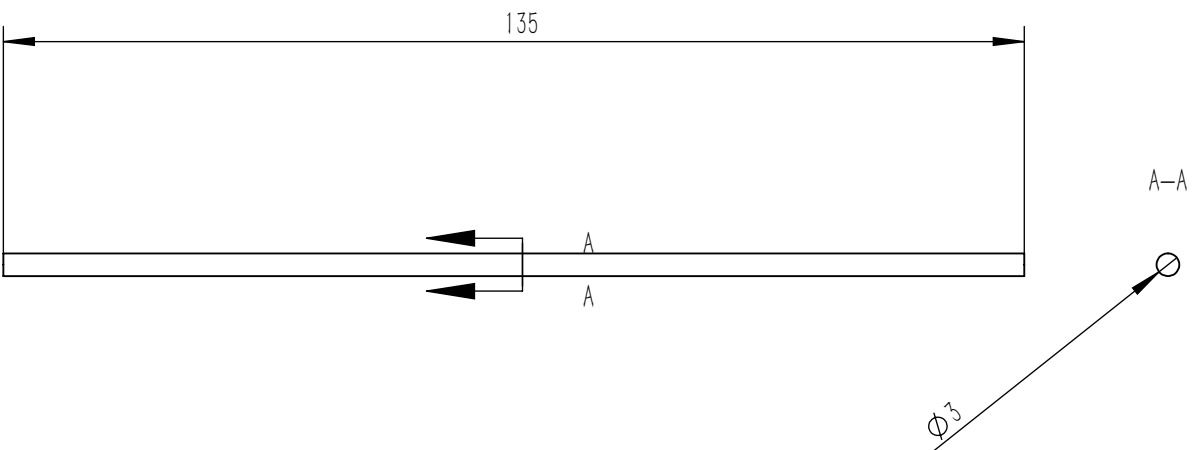
1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989
6. Clearances should be at least 0.8mm and creepage distances should be at least 1.3mm

							PEB				Microcyber Corporation				
Base Chart NO.															
Formaer Based Chart No.										Quality	Scale	GW-WH-003 Circuit Board			
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				Craft	sun wen peng	9.6.2022	G1100-20-03				Procedure DWG				
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				Approve	Sue Jin	9.6.2022	Total	25	NO.5	Version	V1.0	Substiution			

00-80-20-0011G



D	No.	Name				Code				Count	Materials		
	1	Antenna Body				G1100-20-08-01				1	304SUS		
	2	Antenna Outside Column				G1100-20-08-02				1	PC		
	3	Antenna Blocks				G1100-20-08-03				1	304SUS		
	4	Antenna Silicone Pad				G1100-20-08-04				1	Silicone		
	5	Antenna Adapter				G1100-20-08-05				1	304SUS		
	6	Antenna Conductor				G1100-20-08-06				1			
	7	Antenna Terminal				G1100-20-08-07				1	CU		
Parts Code	8	O Ring For Antenna Adaoter				G1100-20-08-08				1	Silicone		
Shared(General)Parts Register	9	Antenna Fixed Joint Gasket				G1100-20-08-09				1	304SUS		
	10	Antenna Hexagon Fastener				G1100-20-08-10				1	304SUS		
								PC			Microcyber Corporation		
Base Chart NO.													
Formaer Based Chart No.								Stage Marker			Quality	Scale	Omnidirectional Antenna Assembly
Signed by	Mark	NO.of Revised	Section	Revised Document Number	Signature	Date							
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				Craft	Sun Wen peng	9.6.2022	G1100-20-08-00			Procedure DWG			
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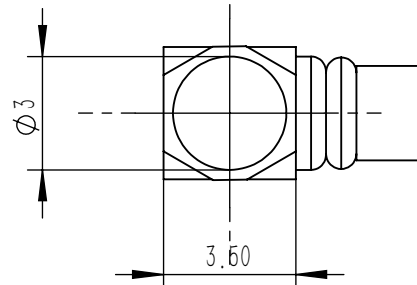
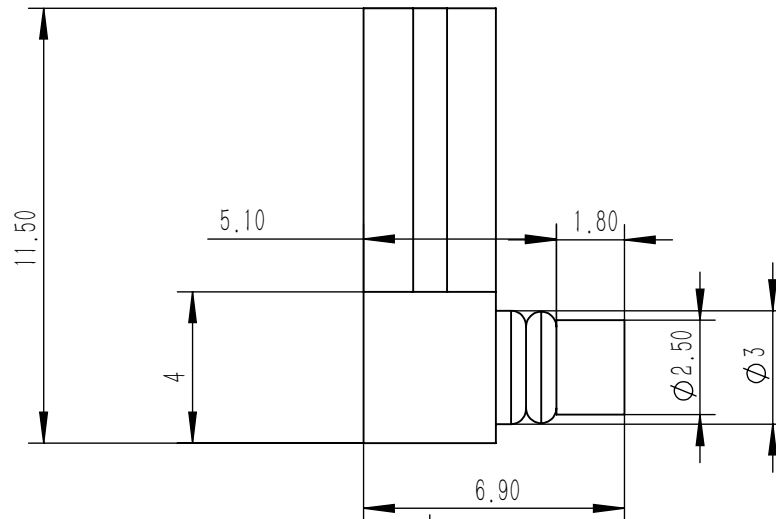
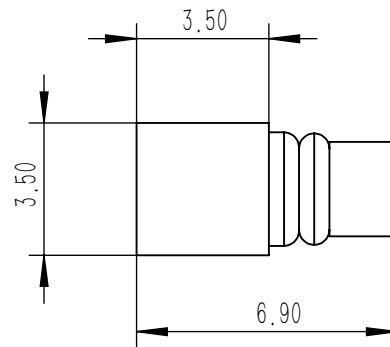
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Report No.: 80125045		5 of 25		Att 2 Illustrations						
Project No.: 80025044		G1100-20-08-06								
A								A		
B								B		
C								C		
D								D		
Technical Requirements 1. No scratches,defects,etc 2. Sharp edge blunt 3. Undeclared chamfer R1.5 4. Unmarked dimensional tolerance according to ISO 2768-1:1989 5. Unmarked form and position tolerance according to ISO 2768-2:1989								E		
Parts Code										
Shared(General)Parts Register										
Base Chart NO.								Microcyber Corporation		
Formaer Based Chart No.								Antenna Conductor		
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				Craft	sun huan peng	9.6.2022				
Date	Verify	Kang kai	9.6.2022	Verify	lin xun zeng	9.6.2022	G1100-20-08-06			
				Approve	Sun Jia	9.6.2022	Total 25	NO.16	Version V1.0	Substiution
1		2			3			4		

A

B

C

D



Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Parts Code

Shared(General) Parts Register

Base Chart NO.

Former Based Chart No.

Mark	NO. of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale
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			Verify	lin xun zeng	9.6.2022			
			Approve	Shi Fei	9.6.2022			

Date

1

2

3

4

CU

Microcyber Corporation

Antenna Terminal

Procedure DWG

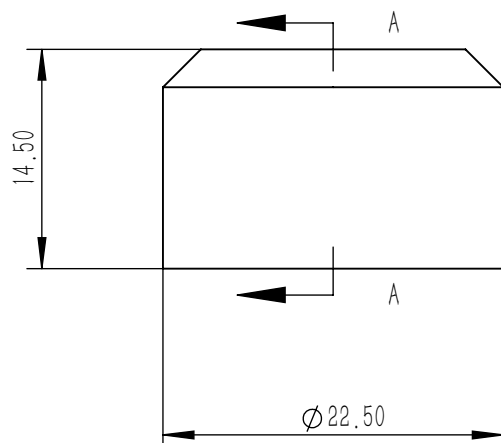
G1100-20-08-07

Total 25 NO.17 Version V1.0

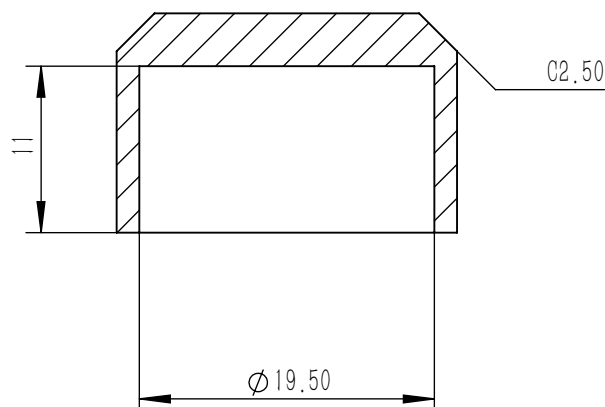
Substitution

A

B



A—A



D

Technical Requirements

1. No scratches,defects,etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Parts Code

Shared(General)Parts Register

Base Chart NO.

304SUS

Microcyber
Corporation

Formaer Based
Chart No.

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			Crafts	Guo Wen Peng	9.6.2022	G1100-20-08-03					
Verify	Kang Kai	9.6.2022	Verify	Tan Xun Zeng	9.6.2022						
			Approve	Shen Jian	9.6.2022	Total 25		NO.13		Version V1.0	

Antenna Blocks

Procedure DWG

G1100-20-08-03

Substitution

1

2

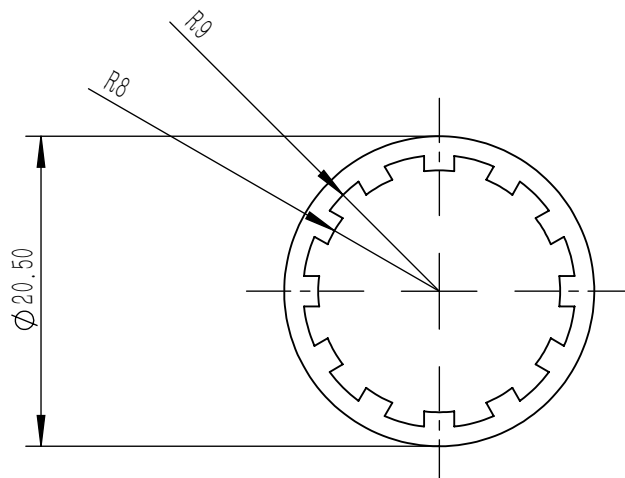
3

4

A



B



C



D

Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Parts Code

Shared(General)Parts Register

Base Chart NO.

Former Based Chart No.

Signed by

Date

						304SUS			Microcyber Corporation	
Mark	NO. of Revised	Section	Revised Document Number	Signature	Date	Stage Marker			Quality	Scale
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			Craft	sun hui peng	9.6.2022					
Verify	Kang Kai	9.6.2022	Verify	lin xun zeng	9.6.2022	G1100-20-08-09			Antenna Fixed Joint Gasket	
			Approve	Sun Jia	9.6.2022	Total	25	NO.19	Version	V1.0
									Substitution	

1

2

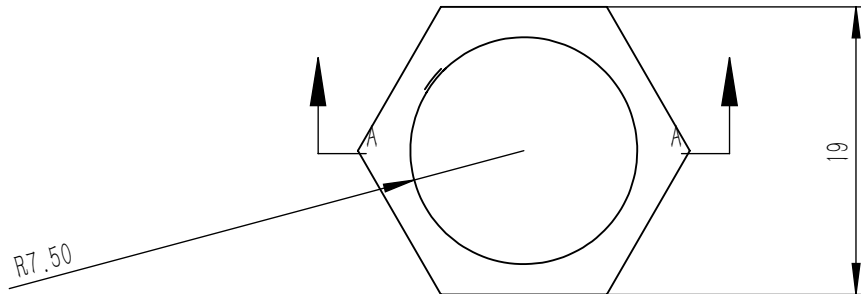
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4

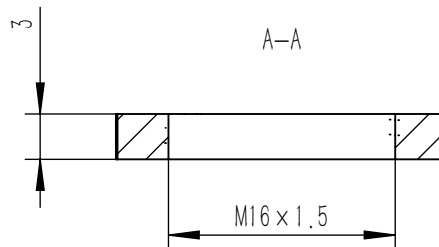
A



B



C



D

Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Parts Code

Shared(General)Parts Register

Base Chart NO.

Former Based Chart No.

						304SUS			Microcyber Corporation	
Mark	NO. of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale	Antenna Hexagon Fastener	
Signed by	Design	Wang Xue Bin	9.6.2022	Calibrate	zhong kai	9.6.2022	0.000	2:1		
				Craft	sun wen peng	9.6.2022	G1100-20-08-10			Procedure DWG
Date	Verify	Kang Kai	9.6.2022	Verify	lin xun zeng	9.6.2022				
				Approve	Sun Wen Peng	9.6.2022	Total 25	NO.20	Version V1.0	Substitution

1

2

3

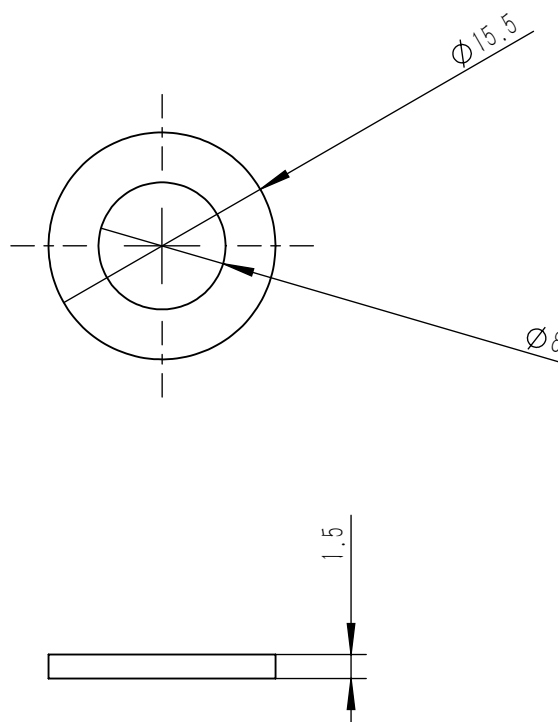
4

B

C

D

E55519



Parts Code

Shared(General)Parts Register

Base Chart NO.

Formaer Based
Chart No.

Signed by

Date _____

Mark	NO. of Revised	Section	Revised Document Number	Signature	Date
Design	Wang Xue Bin	9.6.2022	Calibrate	Zhong Kai	9.6.2022
			Craft	Sun Wenrong	9.6.2022
Verify	Kang Kai	9.6.2022	Verify	Li Xun zeng	9.6.2022
			Approve	Sue Fan	9.6.2022

SILICONE

Microcyber
Corporation

Stage Marker	Quality	Scale
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Quality

Scale

5.1

Antenna Silicone Pad

G1100-20-08-04

Procedure DWG

Approve

2	
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Total	25
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NO.14

Version

V1.0

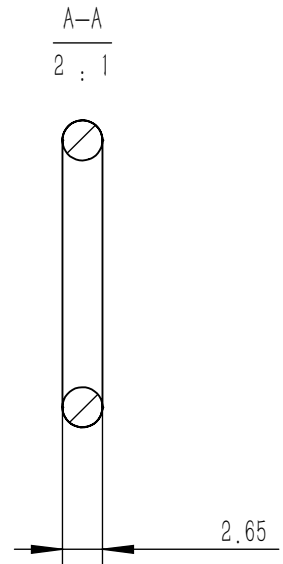
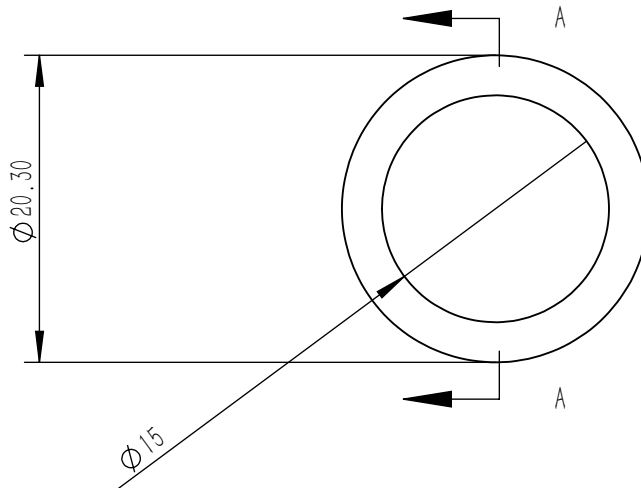
Substitution

A



B

C



D

Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Material:

Dow Toray Co., Ltd
RBB-6300-50;
Silicone, V-0,
150℃, ;
UL746C
E55519

Parts Code

Shared(General)Parts Register

Base Chart NO.

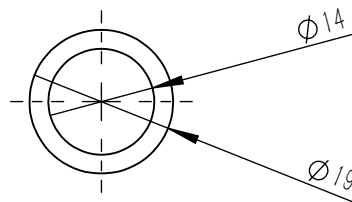
Formaer Based Chart No

Signed by

Date

						SILICONE			Microcyber Corporation	
						Stage Marker			O Ring For Antenna Adaoter	
	Mark	NO.of Revised	Section	Rrevised Document Number	Signature	Date				
	Design	Wang Xue	9.6.2022	Calibrate	zhong kai	9.6.2022			G1100-20-08-08	
				Craft	sun hui peng	9.6.2022				
	Verify	Kang Kai	9.6.2022	Verify	lin xun zeng	9.6.2022	Total 25 NO.18 Version V1.0			Procedure DWG
				Approve	Sun Fm	9.6.2022				
							Substiution			

D



113.50

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Covestro Deutschland AG;
6555+ (z) (f1);
PC, V-0, f(1), 115°C;
ANSI/UL 746C; E41613

Shared(General)Parts Register

Formaer Based
Chart No.

Date _____

Mark	NO. of Revised	Section	Revised Document Number	Signature	Date
Design	Wang Xue Bin	9.6.2022	Calibrate	zhong kai	9.6.2022
			Crafts	Sun wen peng	9.6.2022
Verify	Kang Kai	9.6.2022	Verify	jin xun zeng	9.6.2022
			Approve	Sue Fan	9.6.2022

PC

Microcyber
Corporation

Stage Marker	Quality	Scale
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Quality	Scale
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Scale

Antenna Outside Columu

G1100-20-08-02

Procedure DWG

Total	25	NO.12	Version	V1.0
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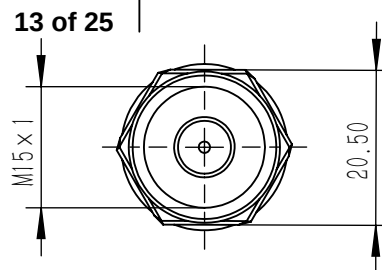
Substitution

G1100-20-08-01

13 of 25

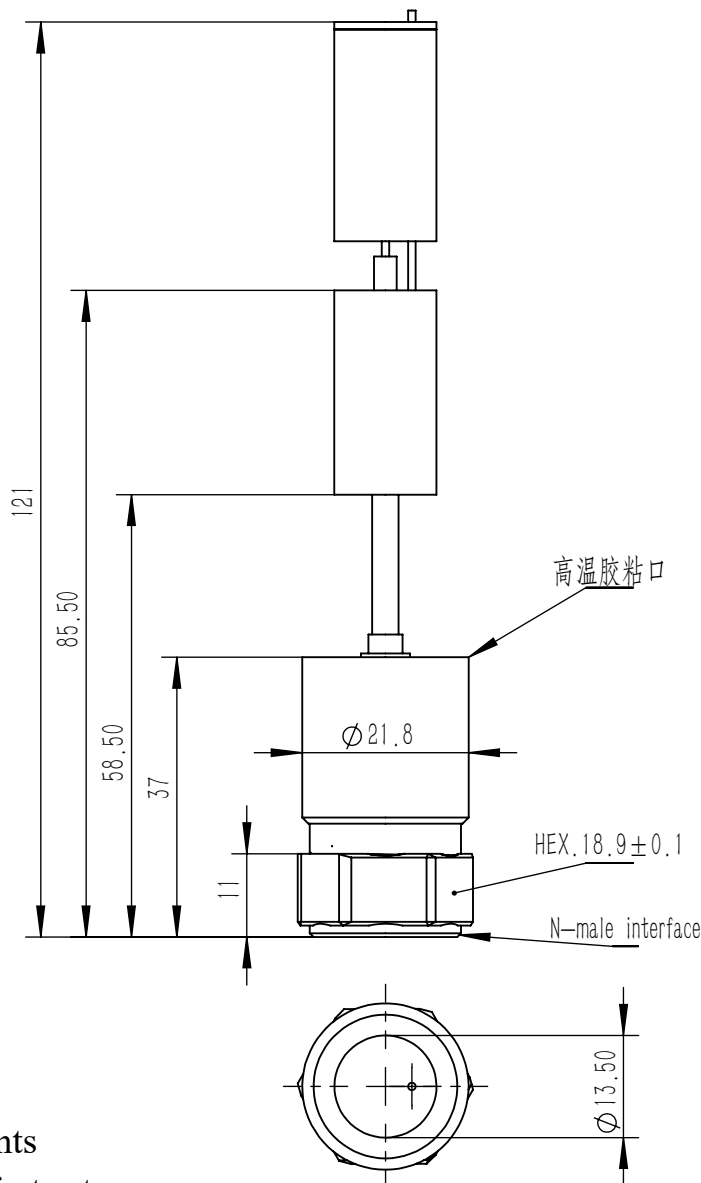
Att 2 Illustrations

A



B

C



D

Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Parts Code

Shared(General)Parts Register

Base Chart NO.

Former Based Chart No.

Mark	NO. of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale
Signed by	Design	Wang Xue Bing	9.6.2022	Calibrate	zhong kai	9.6.2022	0.012	1:1
				Crafts	sun hui peng	9.6.2022		
Date	Verify	Kang Kai	9.6.2022	Verify	lin xun zeng	9.6.2022		
				Approve	Sun Jie	9.6.2022		

304SUS

Microcyber Corporation

Antenna Body

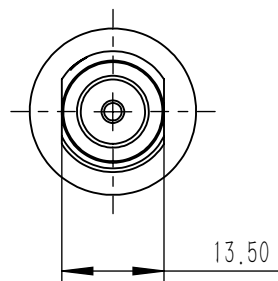
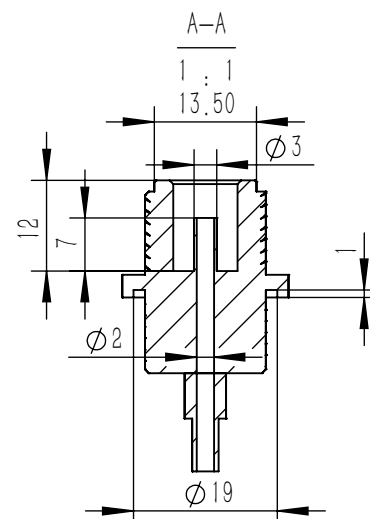
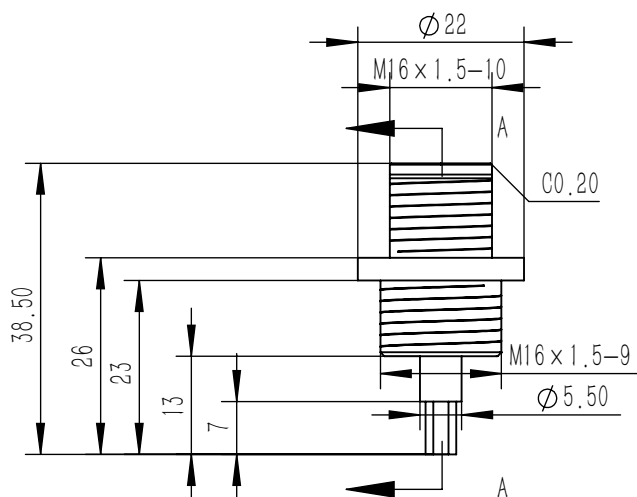
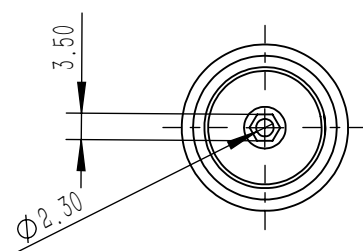
G1100-20-08-01

Procedure DWG

Total 25 NO.11 Version V1.0

Substitution

G1100-20-05



Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Parts Code

Shared(General)Parts Register

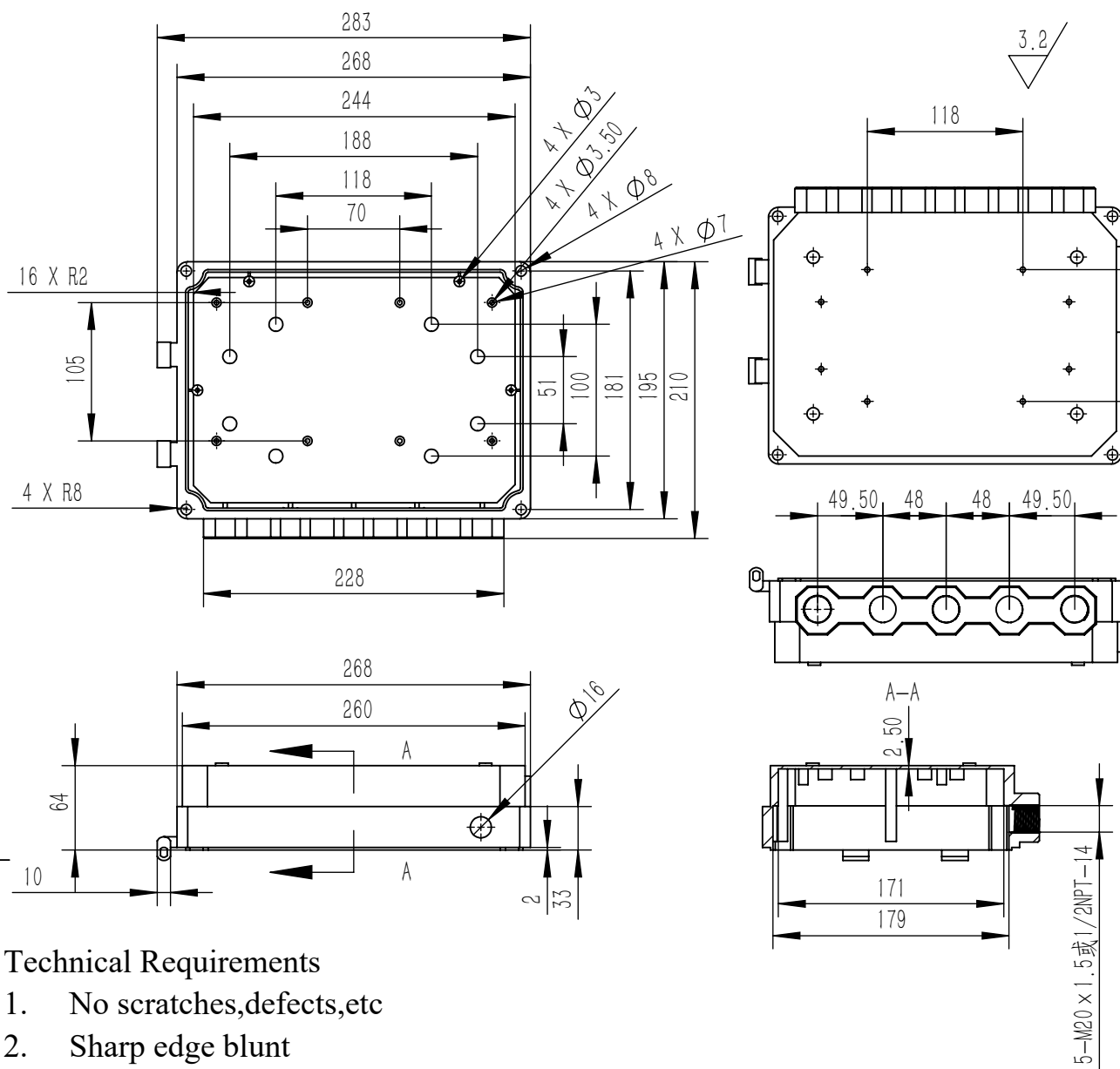
Base Chart NO.

Former Based Chart No.

Signed by

Date

						304SUS			Microcyber Corporation	
Mark	NO. of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale	Antenna Adapter	
Design	Wang Xue	9.6.2022	Calibrate	zhong kai	9.6.2022		0.005	2:1		
			Craft	sun hui	9.6.2022	G1100-20-05			Procedure DWG	
Verify	Kang Kai	9.6.2022	Verify	lin xun	9.6.2022					
			Approve	Sun	9.6.2022	Total 25	NO.15	Version V1.0	Substitution	



Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989
6. Minimum thickness: 4.5mm
7. See general assembly drawing for paint painting information
8. Surface treatment; Spray paint
9. Paint thickness of no more than 0.2mm
10. Texture of material: Interpon 700; Color: 137; Model: EW180Z

Parts Code

Shared(General)Parts Register

Base Chart NO.

Former Based Chart No.

Signed by

Date

ADC12

Microcyber Corporation

Shell Body

G1100-20-06

Procedure DWG

Mark	NO. of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale
Design	1	9.6.2022	Calibrate	zhong kai	9.6.2022		0.617	1:5
			Craft	sun hui peng	9.6.2022			
Verify	1	9.6.2022	Verify	lin xun zeng	9.6.2022			
			Approve	sun hui peng	9.6.2022			

Total 25

NO.8

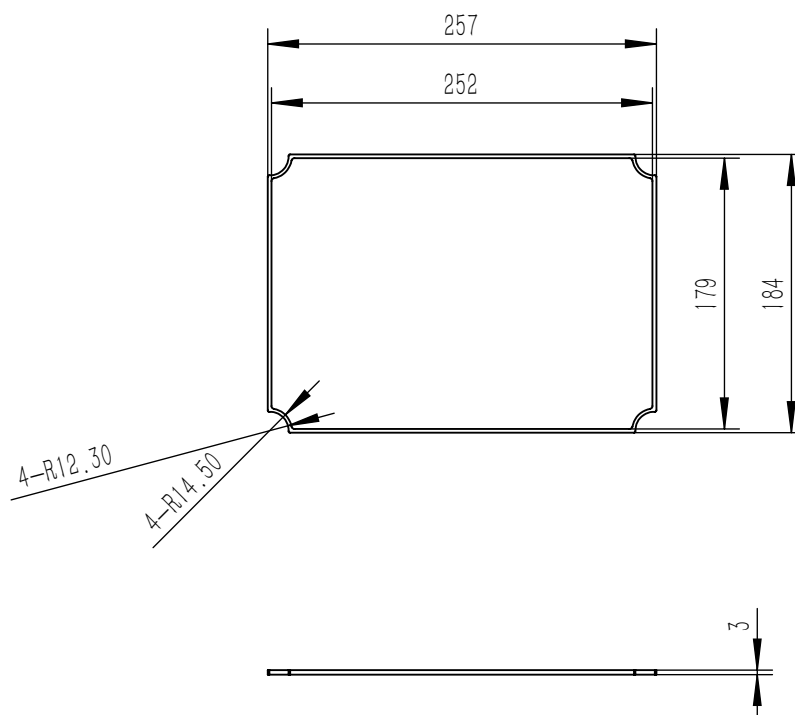
Version

V1.0

Substitution

3.2

B



D

Material:

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Dow Toray Co., Ltd
RBB-6300-50
Silicone, V-0, 150°C;
UL746C
E55519

Parts Code

Shared(General)Parts Register

Base Chart NO.

Formaer Based
Chart No.

Signed by

Date _____

SILICONE

Microcyber
Corporation

Stage Marker

Quality

Scale

Housing Seal

0 006

1.5

G1100-20-11

Procedure DWG

Approve

Σελίδα 2

9.6.202

Total	25
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NO.23

Version

V1.0

Substitu

ution

250447-0011G

Technical drawing of a rectangular metal box. The main view shows a top-down perspective with dimensions: overall width 270, overall height 195, inner width 168, and inner height 84. A detail view 'A' shows a corner with a radius of 14.2. A cross-section view 'B-B' shows the side profile with a width of 34 and a height of 19. The drawing includes a 4x8 hole pattern and a central rectangular opening.

Technical drawing of a mechanical part, showing a cross-section B-B. The drawing includes dimensions: 34 (width) and 19 (height). The part features a central vertical slot and a horizontal slot at the bottom.

Technical drawing of a rectangular box with a lid. The drawing shows a perspective view of the box and a cross-section A-A. The length of the box is dimensioned as 256. The cross-section A-A shows the internal structure and the lid. The minimum thickness of the material is dimensioned as 4.50.

1. No scratches,defects,etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989
6. Minimum thickness:4.5mm
7. See general assembly drawing for paint painting information
8. Surface treatment;Spray paint
9. Paint thickness of no more than 0.2mm
10. Texture of material:Interpon 700;Color:143;Model:EW180Z

Parts Code

Shared(General)Parts Register

Base Chart NO.

Formaer Based
Chart No.

Signed by

Date _____

ADC12

Microcyber
Corporation

Mark	NO. of Revised	Section	Revised Document Number	Signature	Date
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Stage Marker	Quality	Scale
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Shell Cover

1.5

G1100-20-01

Procedure DWG

Approve	<i>S. H. H.</i>	
---------	-----------------	--

Total	25	NO.3	Version	V1.0
-------	----	------	---------	------

Substitution

Master contract number: 302930

Report No.: 80125045

Project No.: 80125044

10-00-07-0011D

18 of 25

Att 2 Illustrations

A

Technical Requirement

1.IP65;Type 4X;

2.Enclosure's material

aluminum alloy ADC12 and PC;

3.Surface treatment;Spray paint

paint thickness of no more than 0.2mm

Texture of material:Interpon 700

Color: 143/137

Model:EW180Z

B

4.Unit is mm;

5.ALL O-rings' s COT: -40℃-150℃;

6.The torque of the tightening bolt is 30 N.M;

7.This product is designed to comply with CSA C22.2

No 213/UL 121201;

8.Ta:-20℃~+60℃

C

1	Shell cover	G1100-20-01	1	ADC12	Purchase Parts
2	Fastening screw 1	M5×1.5-8	4	304SUS	ISO14580
3	AM335X Circuit Board	G1100-20-02	1	PEB	
4	GW-WH-0003 Circuit Board	G1100-20-03	1	PEB	
5	GW-WH-0001 Circuit Board	G1100-20-04	1	PEB	
6	GW-WH-0002 Circuit Board	G1100-20-05	1	PEB	
7	Shell body	G1100-20-06	1	ADC12	
8	Scutcheon	G1100-20-07	1	304SUS	Machined Parts
9	Fastening screw 2	M3×1	4	304SUS	
10	Bidirectional Fastening Hexagonal Prism 1	M2.5×1	4	304SUS	ISO4014
11	Omnidirectional Antenna Assembly	G1100-20-08	1	PC	
12	Bidirectional Fastening Hexagonal Prism 2	M2.5×1	4	PTFE	ISO4014
13	LTP5903 Circuit Board	G1100-20-09	1	PEB	
14	Fastening screw 3	M2×1	2	304SUS	
15	LTP5903 Circuit Board AP	G1100-20-10	1	PEB	
16	Spring Washer	Inner Diameter:5.4	4	304SUS	ISO7089
17	Fastening screw 4	M3×1	4	304SUS	ISO7048
18	Housing Seal	G1100-20-11	1	Silicone	
19	Install Pendant 2	G1100-20-12	2	304SUS	
20	Flat washer	Inner Diameter:5.5	4	304SUS	ISO7089
21	Fastening screw 5	M5×1-10	4	304SUS	ISO7045
22	Install Pendant 1	G1100-20-13	1	304SUS	
23	Fastening Bolt	M8×50	2	304SUS	ISO7045
24	Cross Recessed Cheese Head Screws	M5×1-47	2	304SUS	ISO7048
25	Hexagon Domed Canuts	M5×1	2	304SUS	ISO4759
26					

D

1	Shell cover	G1100-20-01	1	ADC12	Purchase Parts
2	Fastening screw 1	M5×1.5-8	4	304SUS	ISO14580
3	AM335X Circuit Board	G1100-20-02	1	PEB	
4	GW-WH-0003 Circuit Board	G1100-20-03	1	PEB	
5	GW-WH-0001 Circuit Board	G1100-20-04	1	PEB	
6	GW-WH-0002 Circuit Board	G1100-20-05	1	PEB	
7	Shell body	G1100-20-06	1	ADC12	
8	Scutcheon	G1100-20-07	1	304SUS	Machined Parts
9	Fastening screw 2	M3×1	4	304SUS	
10	Bidirectional Fastening Hexagonal Prism 1	M2.5×1	4	304SUS	ISO4014
11	Omnidirectional Antenna Assembly	G1100-20-08	1	PC	
12	Bidirectional Fastening Hexagonal Prism 2	M2.5×1	4	PTFE	ISO4014
13	LTP5903 Circuit Board	G1100-20-09	1	PEB	
14	Fastening screw 3	M2×1	2	304SUS	
15	LTP5903 Circuit Board AP	G1100-20-10	1	PEB	
16	Spring Washer	Inner Diameter:5.4	4	304SUS	ISO7089
17	Fastening screw 4	M3×1	4	304SUS	ISO7048
18	Housing Seal	G1100-20-11	1	Silicone	
19	Install Pendant 2	G1100-20-12	2	304SUS	
20	Flat washer	Inner Diameter:5.5	4	304SUS	ISO7089
21	Fastening screw 5	M5×1-10	4	304SUS	ISO7045
22	Install Pendant 1	G1100-20-13	1	304SUS	
23	Fastening Bolt	M8×50	2	304SUS	ISO7045
24	Cross Recessed Cheese Head Screws	M5×1-47	2	304SUS	ISO7048
25	Hexagon Domed Canuts	M5×1	2	304SUS	ISO4759
26					

E

1	Shell cover	G1100-20-01	1	ADC12	Purchase Parts
2	Fastening screw 1	M5×1.5-8	4	304SUS	ISO14580
3	AM335X Circuit Board	G1100-20-02	1	PEB	
4	GW-WH-0003 Circuit Board	G1100-20-03	1	PEB	
5	GW-WH-0001 Circuit Board	G1100-20-04	1	PEB	
6	GW-WH-0002 Circuit Board	G1100-20-05	1	PEB	
7	Shell body	G1100-20-06	1	ADC12	
8	Scutcheon	G1100-20-07	1	304SUS	Machined Parts
9	Fastening screw 2	M3×1	4	304SUS	
10	Bidirectional Fastening Hexagonal Prism 1	M2.5×1	4	304SUS	ISO4014
11	Omnidirectional Antenna Assembly	G1100-20-08	1	PC	
12	Bidirectional Fastening Hexagonal Prism 2	M2.5×1	4	PTFE	ISO4014
13	LTP5903 Circuit Board	G1100-20-09	1	PEB	
14	Fastening screw 3	M2×1	2	304SUS	
15	LTP5903 Circuit Board AP	G1100-20-10	1	PEB	
16	Spring Washer	Inner Diameter:5.4	4	304SUS	ISO7089
17	Fastening screw 4	M3×1	4	304SUS	ISO7048
18	Housing Seal	G1100-20-11	1	Silicone	
19	Install Pendant 2	G1100-20-12	2	304SUS	
20	Flat washer	Inner Diameter:5.5	4	304SUS	ISO7089
21	Fastening screw 5	M5×1-10	4	304SUS	ISO7045
22	Install Pendant 1	G1100-20-13	1	304SUS	
23	Fastening Bolt	M8×50	2	304SUS	ISO7045
24	Cross Recessed Cheese Head Screws	M5×1-47	2	304SUS	ISO7048
25	Hexagon Domed Canuts	M5×1	2	304SUS	ISO4759
26					

F

1	Shell cover	G1100-20-01	1	ADC12	Purchase Parts
2	Fastening screw 1	M5×1.5-8	4	304SUS	ISO14580
3	AM335X Circuit Board	G1100-20-02	1	PEB	
4	GW-WH-0003 Circuit Board	G1100-20-03	1	PEB	
5	GW-WH-0001 Circuit Board	G1100-20-04	1	PEB	
6	GW-WH-0002 Circuit Board	G1100-20-05	1	PEB	
7	Shell body	G1100-20-06	1	ADC12	
8	Scutcheon	G1100-20-07	1	304SUS	Machined Parts
9	Fastening screw 2	M3×1	4	304SUS	
10	Bidirectional Fastening Hexagonal Prism 1	M2.5×1	4	304SUS	ISO4014
11	Omnidirectional Antenna Assembly	G1100-20-08	1	PC	
12	Bidirectional Fastening Hexagonal Prism 2	M2.5×1	4	PTFE	ISO4014
13	LTP5903 Circuit Board	G1100-20-09	1	PEB	
14	Fastening screw 3	M2×1	2	304SUS	
15	LTP5903 Circuit Board AP	G1100-20-10	1	PEB	
16	Spring Washer	Inner Diameter:5.4	4	304SUS	ISO7089
17	Fastening screw 4	M3×1	4	304SUS	ISO7048
18	Housing Seal	G1100-20-11	1	Silicone	
19	Install Pendant 2	G1100-20-12	2	304SUS	
20	Flat washer	Inner Diameter:5.5	4	304SUS	ISO7089
21	Fastening screw 5	M5×1-10	4	304SUS	ISO7045
22	Install Pendant 1	G1100-20-13	1	304SUS	
23	Fastening Bolt	M8×50	2	304SUS	ISO7045
24	Cross Recessed Cheese Head Screws	M5×1-47	2	304SUS	ISO7048
25	Hexagon Domed Canuts	M5×1	2	304SUS	ISO4759
26					

Base Chart NO.

Formaer Based Chart No.

Signed by

Date

Mark

NO.of Revised

Section

Revised Document Number

Signature

Date

Design

Wang Xue

9.6.2022

Calibrate

zhong kai

9.6.2022

Verify

Kang Kai

9.6.2022

Verify

Lin Xun

9.6.2022

Approve

Sun

9.6.2022

General Assembly Drawing

Stage Marker

Quality

Scale

G1100-20-00-01

Total 25

NO.2

Version V1.0

Microcyber Corporation

G1100 WirelessHART Smart Gateway

Procedure DWG

Substiution

1

2

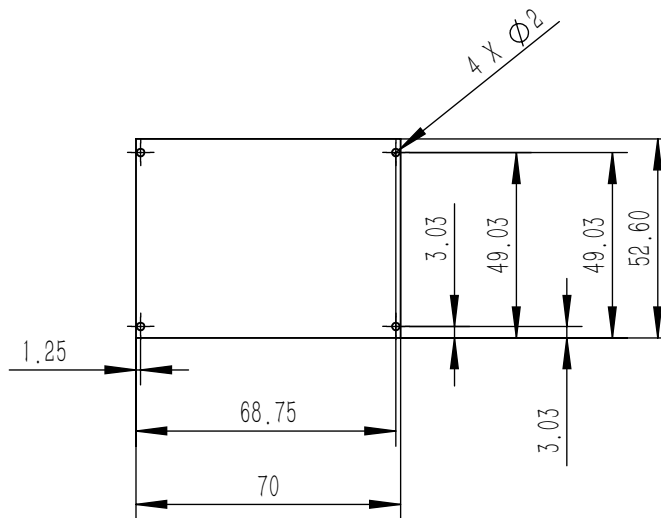
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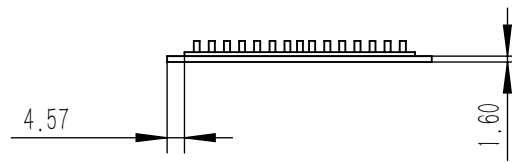
A



B



C



D

Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989
6. Clearances should be at least 0.8mm and creepage distances should be at least 1.3mm

Parts Code

Shared(General)Parts Register

Base Chart NO.

Former Based Chart No.

Signed by

Date

Mark	NO.of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale
Design	Wang Xue	9.6.2022	Calibrate	zhong kai	9.6.2022		0.007	1:1
			Craft	sun hui peng	9.6.2022			
Verify	Kang Kai	9.6.2022	Verify	lin xun zeng	9.6.2022			
			Approve	Sun Jia	9.6.2022			

PEW

Microcyber Corporation

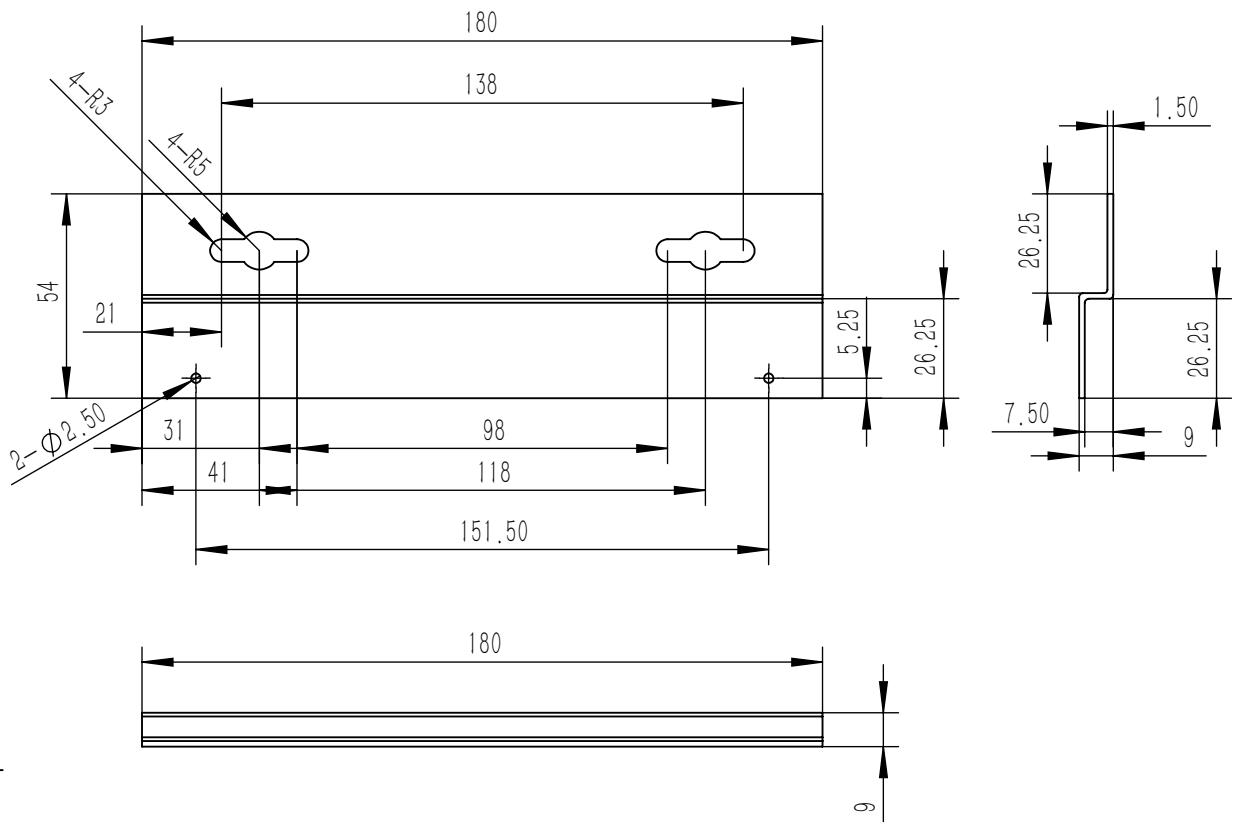
AM335X
Circuit Board

Procedure DWG

G1100-20-02

Total 25 NO.4 Version V1.0

Substitution



Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Parts Code

Shared(General)Parts Register

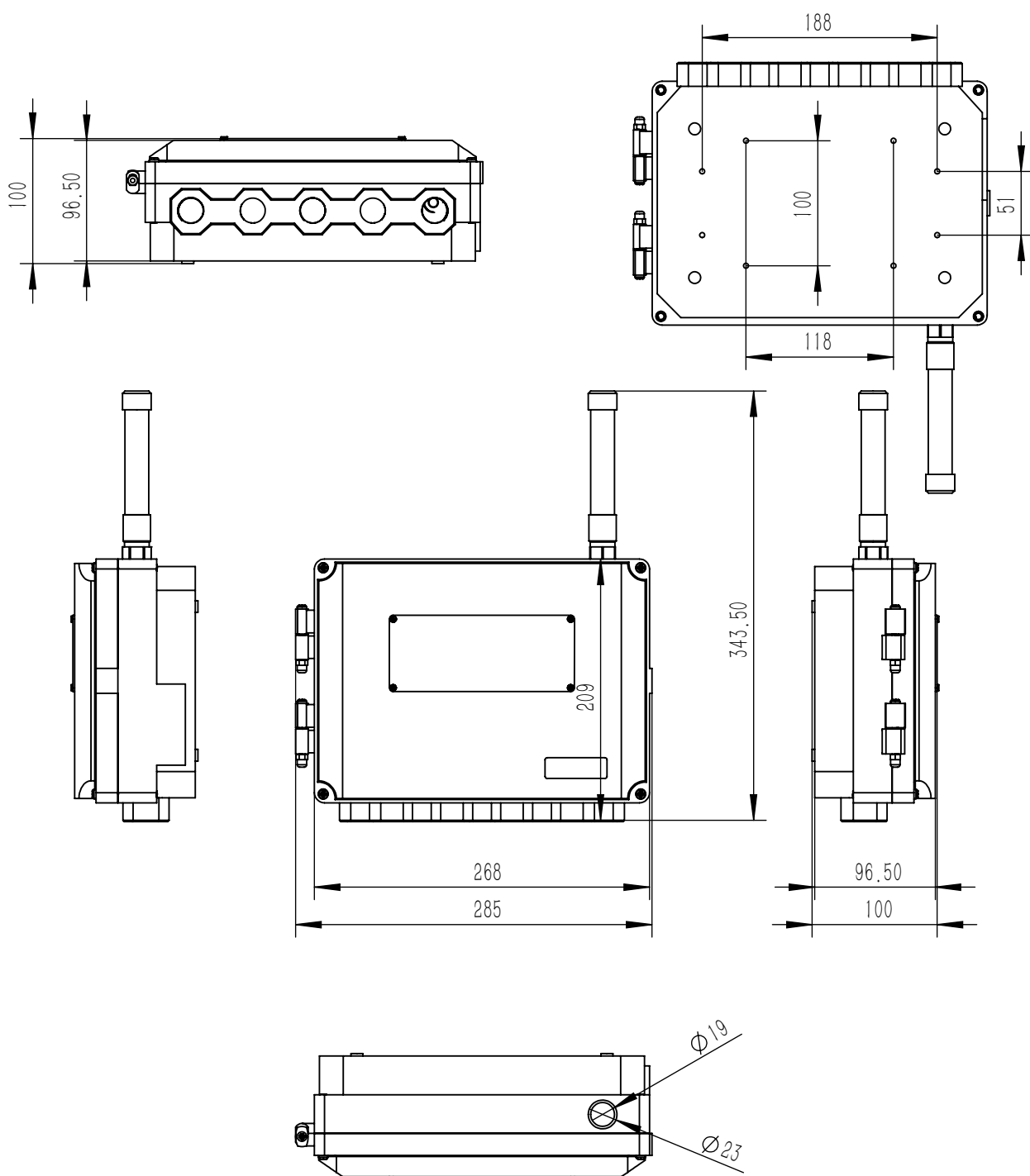
Base Chart NO.

Formaer Based Chart No.

Signed by

Date

						304SUS			Microcyber Corporation	
Mark	NO.of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale	Install Pendant1	
Design	Wang Xue Bai	9.6.2022	Calibrate	zhong kai	9.6.2022		0.016	1:5		
			Crafts	sun hui peng	9.6.2022	G1100-20-13			Procedure DWG	
Verify	Kang Kai	9.6.2022	Verify	lin xun zeng	9.6.2022					
			Approve	Sun Jia	9.6.2022	Total 25	NO.25	Version V1.0	Substiution	



Parts Code

Shared(General)Parts Register

Base Chart NO.

Former Based Chart No.

Signed by

Date

ADC12+PC

Microcyber Corporation

Mark NO. of Revised Section Revised Document Number Signature Date

Stage Marker Quality Scale

G1100 WirelessHART Smart Gateway

G1100-20-00

Procedure DWG

Approve Date 9.6.2022

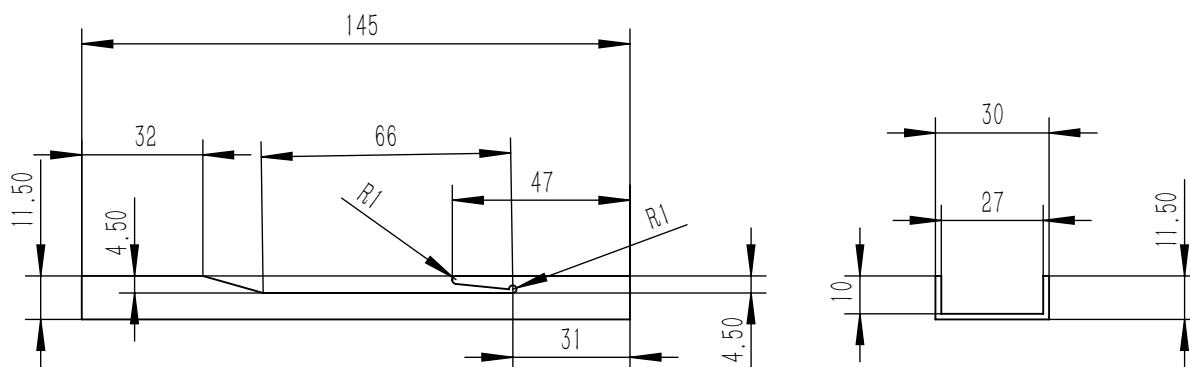
Total:25 NO.1 Version: V1.0

Substitution

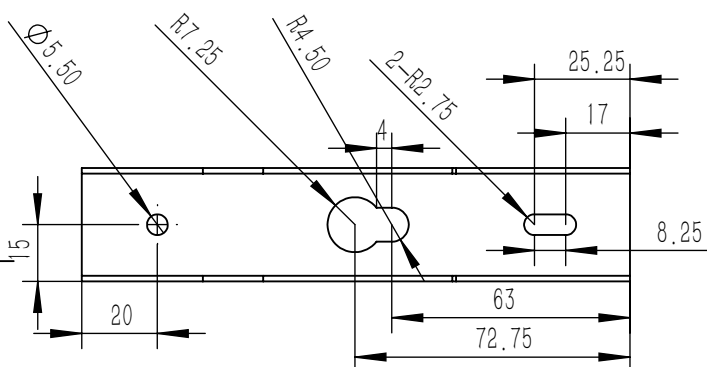
A



B



C



D

Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989

Parts Code

Shared(General)Parts Register

Base Chart NO.

Former Based Chart No.

Signed by

Date

Mark	NO. of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale
Design	1	9.6.2022	Calibrate	zhong kai	9.6.2022		0.010	1:2
			Craft	sun hui peng	9.6.2022			
Verify	1	9.6.2022	Verify	lin xun zeng	9.6.2022			
			Approve	sun hui peng	9.6.2022			

304SUS

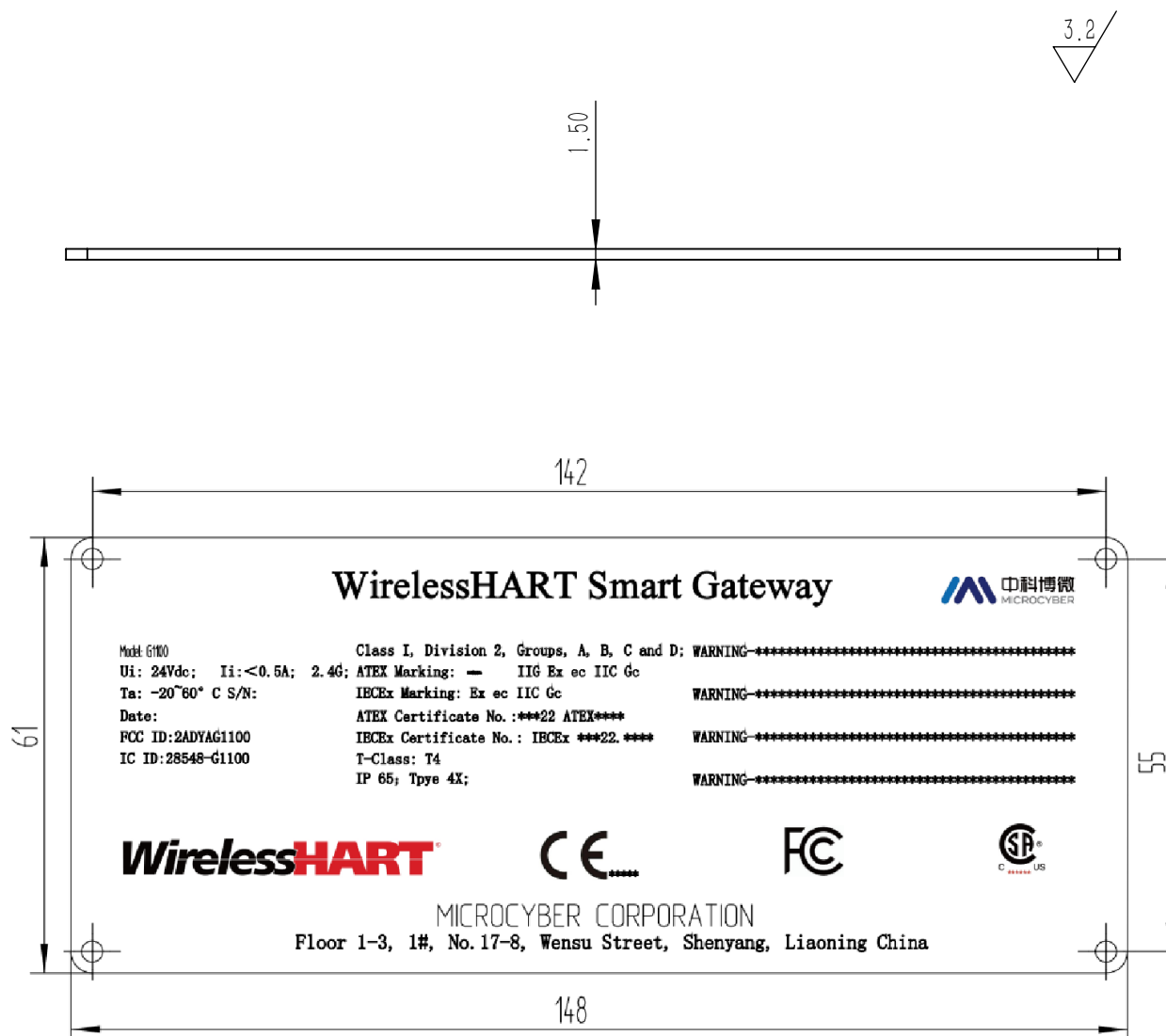
Microcyber Corporation

Install Pendant2

G1100-20-12

Procedure DWG

Total 25 NO.24 Version V1.0 Substitution

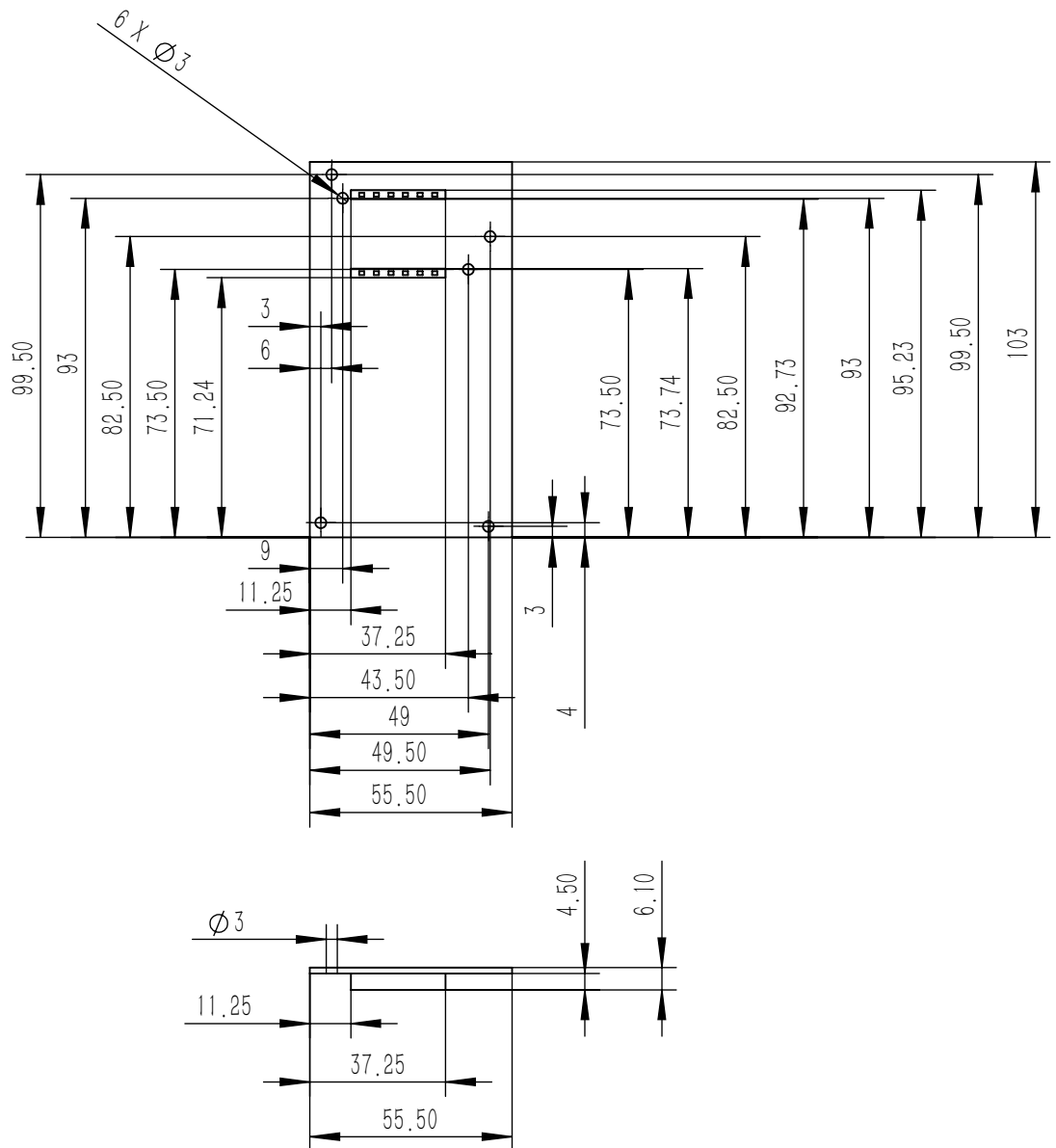


Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989
6. Four M3×1 screws fix the nameplate on the surface of the casing, cooperate with spring washers and flat washers, and the torque is 1.2Nm.

							304SUS					Microcyber Corporation	
Base Chart NO.													
Formaer Based Chart No.							Stage Marker			Quality	Scale	Scutcheon	
	Mark	NO.of Revised	Section	Rrevised Document Number	Signature	Date							
Signed by	Design	Wang Xue Bin	9.6.2022	Calibrate	zhong Kai	9.6.2022					0.013		
				Crafts	sun wen peng	9.6.2022	G1100-20-07					Procedure DWG	
Date	Verify	Kang Kai	9.6.2022	Verify	lin xun 2022	9.6.2022							
				Approve	Sun Jm	9.6.2022	Total 25	NO.9	Version V1.0	Substiution			

G1100-20-09



Material:

KINGBOARD LAMINATES HOLDINGS LTD

KB-616(X)

V-0, 130°C, Thickness: 0.38mm UL764

E123995

Clearances should be at least 0.8mm and creepage distances should be at least 1.3mm

Parts Code

Shared(General)Parts Register

Base Chart NO.

Former Based Chart No.

Signed by

Date

Mark	NO. of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale
Design	Wang Xue	9.6.2022	Calibrate	zhong kai	9.6.2022		0.010	1:2
			Craft	sun hui	9.6.2022			
Verify	Kang Kai	9.6.2022	Verify	lin xun	9.6.2022			
			Approve	Sun Jie	9.6.2022	Total 25	NO.21	Version V1.0

PWB

Microcyber Corporation

LTP5903
Circuit Board

Procedure DWG

G1100-20-09

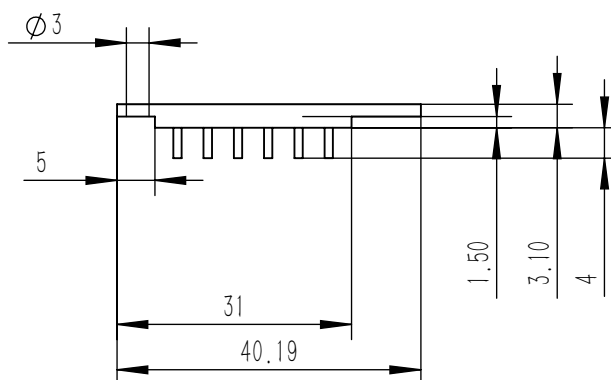
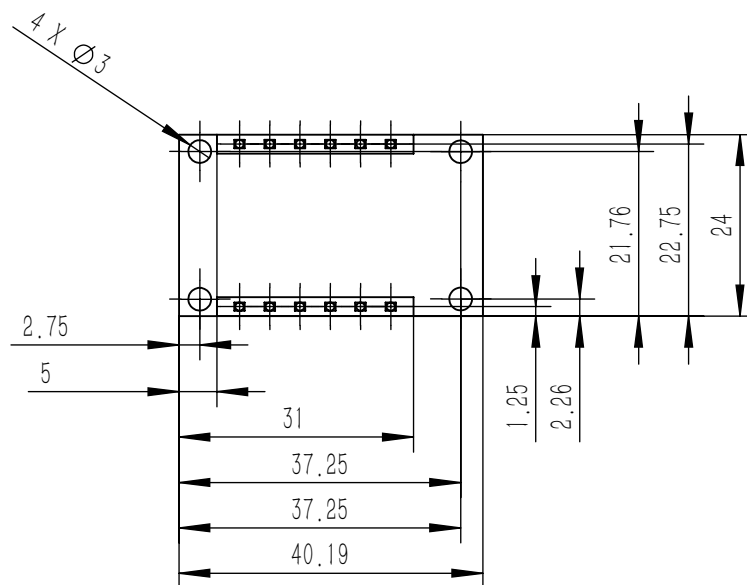
Substitution

A

B

C

D



Technical Requirements

1. No scratches, defects, etc
2. Sharp edge blunt
3. Undeclared chamfer R1.5
4. Unmarked dimensional tolerance according to ISO 2768-1:1989
5. Unmarked form and position tolerance according to ISO 2768-2:1989
6. Clearances should be at least 0.8mm and creepage distances should be at least 1.3mm

Parts Code

Shared(General)Parts Register

Base Chart NO.

Former Based Chart No.

Signed by

Date

Mark	NO. of Revised	Section	Revised Document Number	Signature	Date	Stage Marker	Quality	Scale
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Microcyber Corporation

LTP5903 Circuit Board AP

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