



NEW

2018
~2019

GAINTA INDUSTRIES LTD



www.gainta.com.tw



25 Years of Experience in Product Development

GAINTA, a privately owned Taiwan company, is one of the largest enclosure manufacturers in Asia, and is the market leader in thermoplastic enclosures used for protecting electrical and electronic components operating in hostile environments. GAINTEA enclosures are manufactured in modern factories located in Taiwan

Whatever your application, the GAINTEA enclosure family features the widest range of high quality enclosures for the packaging and protection of electrical and electronic components and systems. Enclosures can be delivered in standard off the shelf configurations or customized to your exact specifications. .

Continuous Product Development

The GAINTEA enclosure range features over 1000 different standard enclosures made of polycarbonate, ABS, aluminium die-casting & extrusion. GAINTEA is the industry leader in developing both new products and new technologies for molding thermoplastic enclosures. At GAINTEA, we consider molding technology an essential part of product development.

But more important than technical leadership, is the GAINTEA commitment to understanding the needs of its customers. All our products are designed in close cooperation with our customers. We use input from our global customer base to produce new enclosure ranges, useful accessories and on-going product improvements and enhancements.

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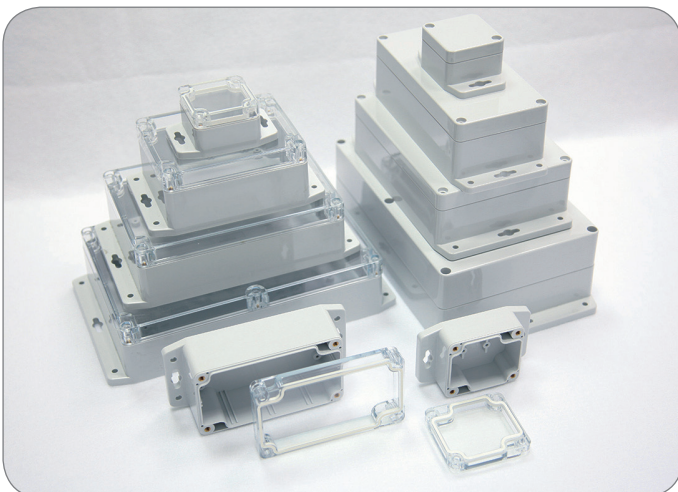
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G2XXMF-IP67 / G3XXMF-IP67 SERIES

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SEALED IP67 POLYCARBONATE AND ABS ENCLOSURES WITH MOUNTING FLANGE

- G2XXMF-IP67 series : Light grey (ex : G250MF-IP67 , G250CMF-IP67)
- G3XXMF-IP67 series : Dark grey (ex : G362MF-IP67)



G2XX-IP67 / G3XX-IP67 SERIES

SEALED IP67 POLYCARBONATE AND ABS ENCLOSURES



PRODUCT INFORMATION

- The lid and base incorporate a tongue and groove sealing system with silicone adhesive.
- Wall mounting holes and lid fixing screws are outside the sealing area thus preventing the ingress of moisture and dust.
- Design to IP67 of IEC 529 (Dust and Hoseproof).
- Bosses on internal base allow fixing of PCB's horizontally or connection of terminals with M3X4mm self-tapping screws.
- Internal guide slots for mounting PCB assemblies vertically.
- Available with clear or light grey lids.



G203-IP67



G212C-IP67



G331-IP67

PC
(G2XX-IP67)
(G2XXC-IP67)

- Material : Polycarbonate (UL94-HB)
- Moulded in : Light grey
- Operating temperature : -40°C to 120°C
- Clear lid is available on request

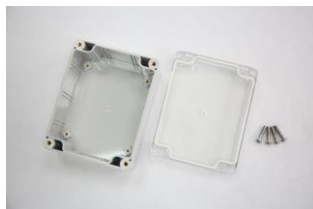
ABS
(G3XX-IP67)

- Material : High Impact ABS (UL94-HB)
- Moulded in : Dark grey
- Operating temperature : -20°C to 80°C

Content



G203-IP67



G212C-IP67



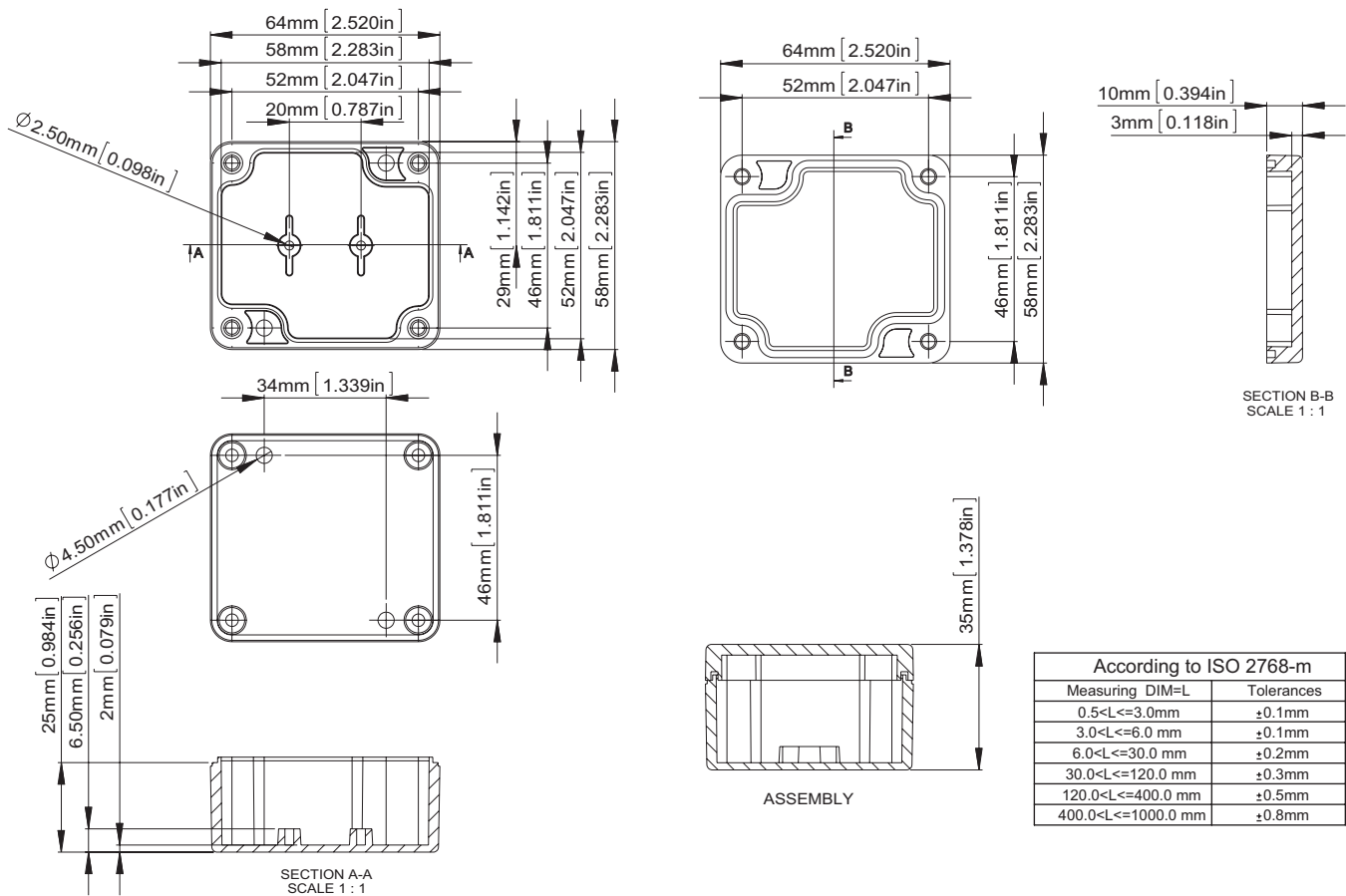
G331-IP67

MATERIAL : POLYCARBONATE		EXTERNAL DIMENSION(mm)	MATERIAL : ABS
Light Grey Lid + Light Grey Base	Clear Lid + Light Grey Base		Dark Grey Lid + Dark Grey Base
Item No.	Item No.		Item no.
G201-IP67	G201C-IP67	64 x 58 x 35	G302-IP67
G203-IP67	G203C-IP67	115 x 65 x 40	G304-IP67
G205-IP67	G205C-IP67	115 x 65 x 55	G308-IP67
G212-IP67	G212C-IP67	115 x 90 x 55	G311-IP67
G214-IP67	G214C-IP67	171 x 121 x 55	G313-IP67
G218-IP67	G218C-IP67	222 x 146 x 55	G317-IP67
G221-IP67	G221C-IP67	115 x 90 x 80	G331-IP67
G223-IP67	G223C-IP67	171 x 121 x 80	G340-IP67
G229-IP67	G229C-IP67	195 x 80 x 55	G346-IP67
G232-IP67	G232C-IP67	222 x 146 x 75	G353-IP67
G250-IP67	G250C-IP67	52 x 50 x 35	G362-IP67
G256-IP67	G256C-IP67	82 x 80 x 55	G366-IP67
G258-IP67	G258C-IP67	160 x 80 x 55	G368-IP67
G265-IP67	G265C-IP67	160 x 80 x 85	G369-IP67
G278-IP67	G278C-IP67	120 x 120 x 60	G386-IP67
G279-IP67	G279C-IP67	120 x 120 x 90	G387-IP67
G287-IP67	G287C-IP67	160 x 160 x 60	G396-IP67
G288-IP67	G288C-IP67	160 x 160 x 90	G399-IP67
NEW G2691-IP67	G2691C-IP67	200 x 120 x 75	G3735-IP67
NEW G2385-IP67	G2385C-IP67	265 x 185 x 95	G3783-IP67
NEW G2018-IP67	G2018C-IP67	240 x 160 x 90	G3008-IP67
NEW G2025-IP67	G2025C-IP67	240 x 160 x 120	G3019-IP67
NEW G20295-IP67	G20295C-IP67	300 x 230 x 86	G30285-IP67
NEW G20385-IP67	G20385C-IP67	300 x 230 x 111	G30312-IP67
NEW G20583-IP67	G20583C-IP67	360 x 200 x 150	G30393-IP67

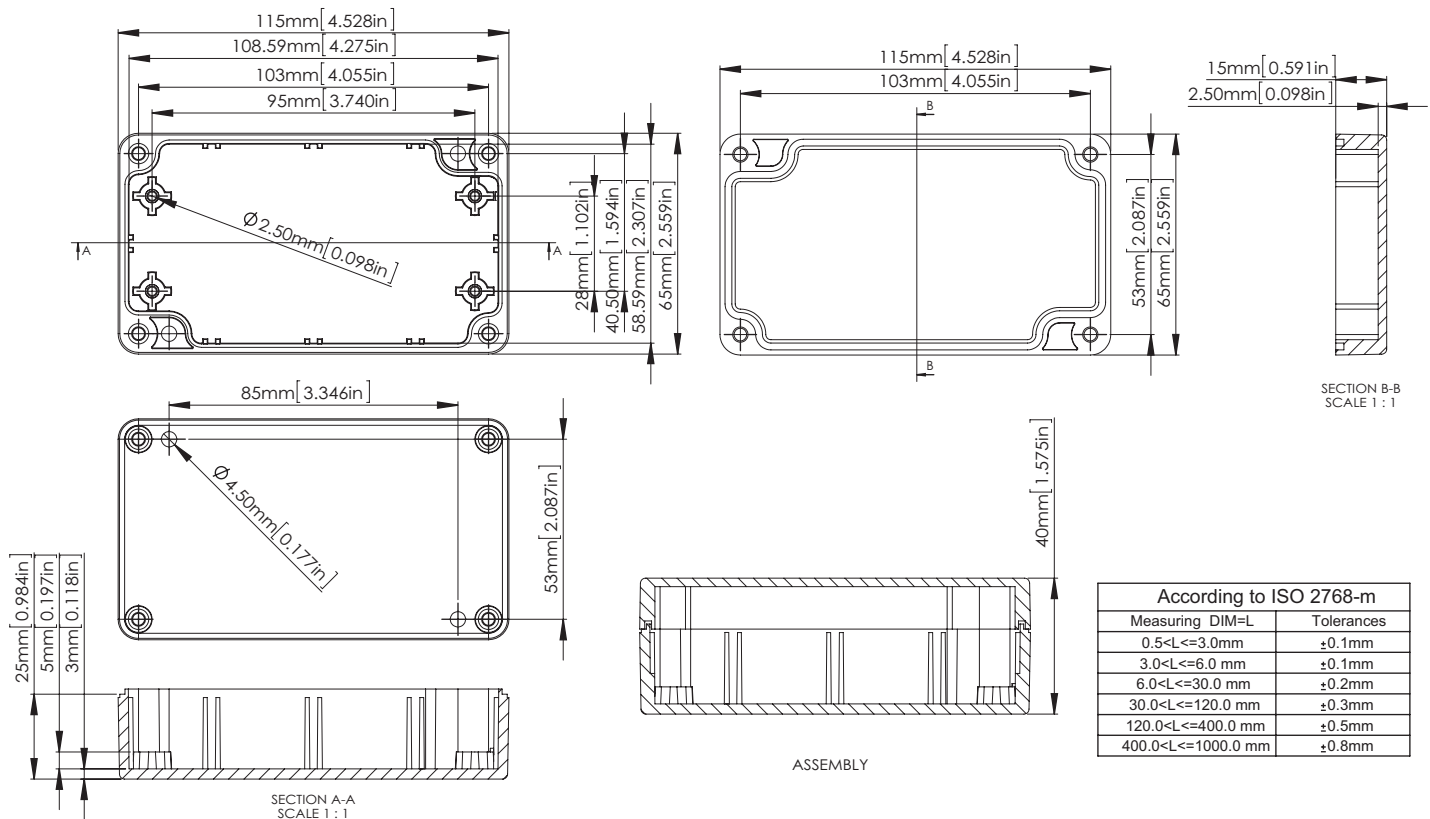
▲ Lid fixing screw are M4 stainless steel (non-magnetic) into threaded brass inserts.

▲ For the detail drawings of the new products, please check our website (www.gainta.com.tw).

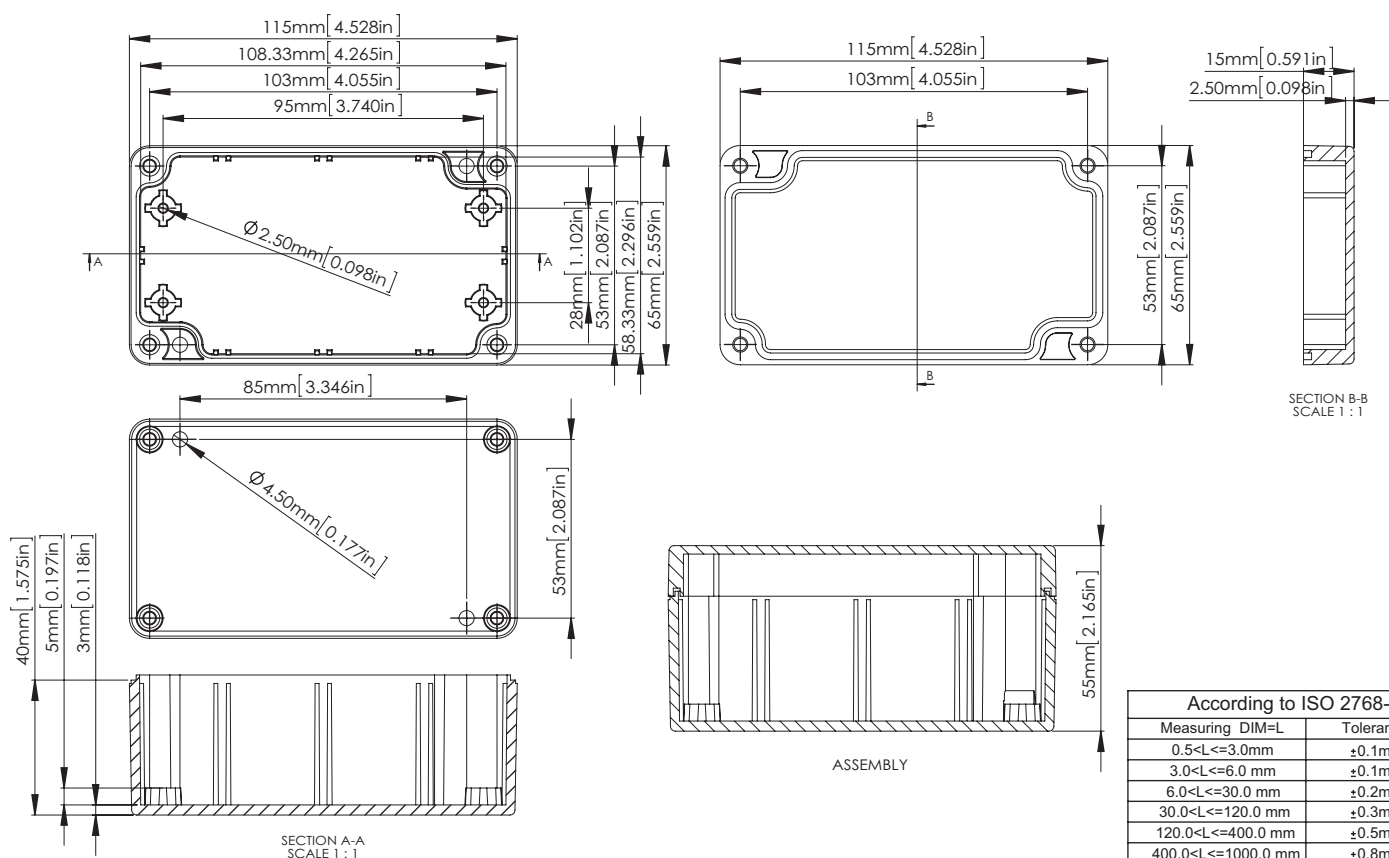
G201-IP67 / G201C-IP67 / G302-IP67



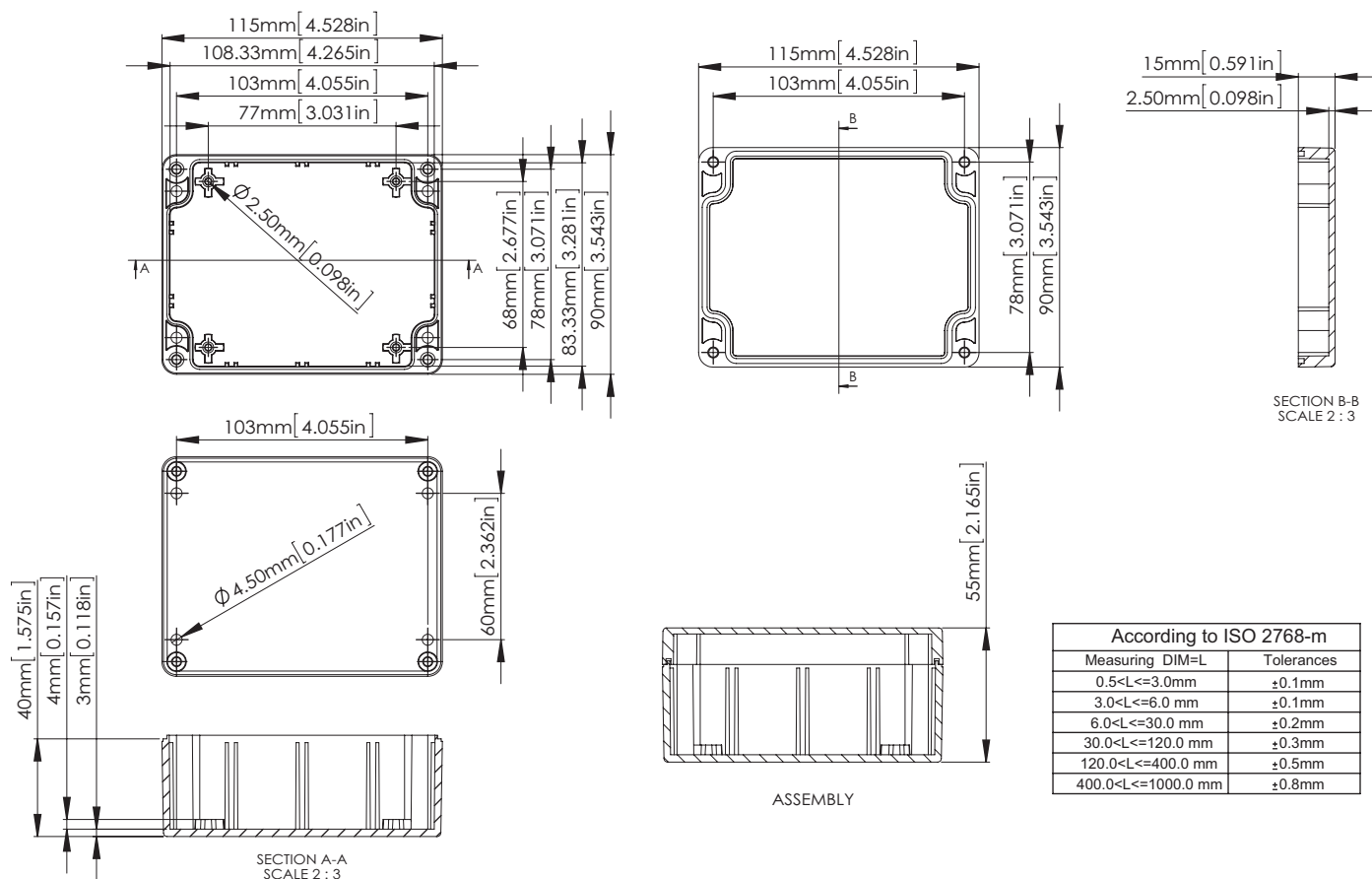
G203-IP67 / G203C-IP67 / G304-IP67



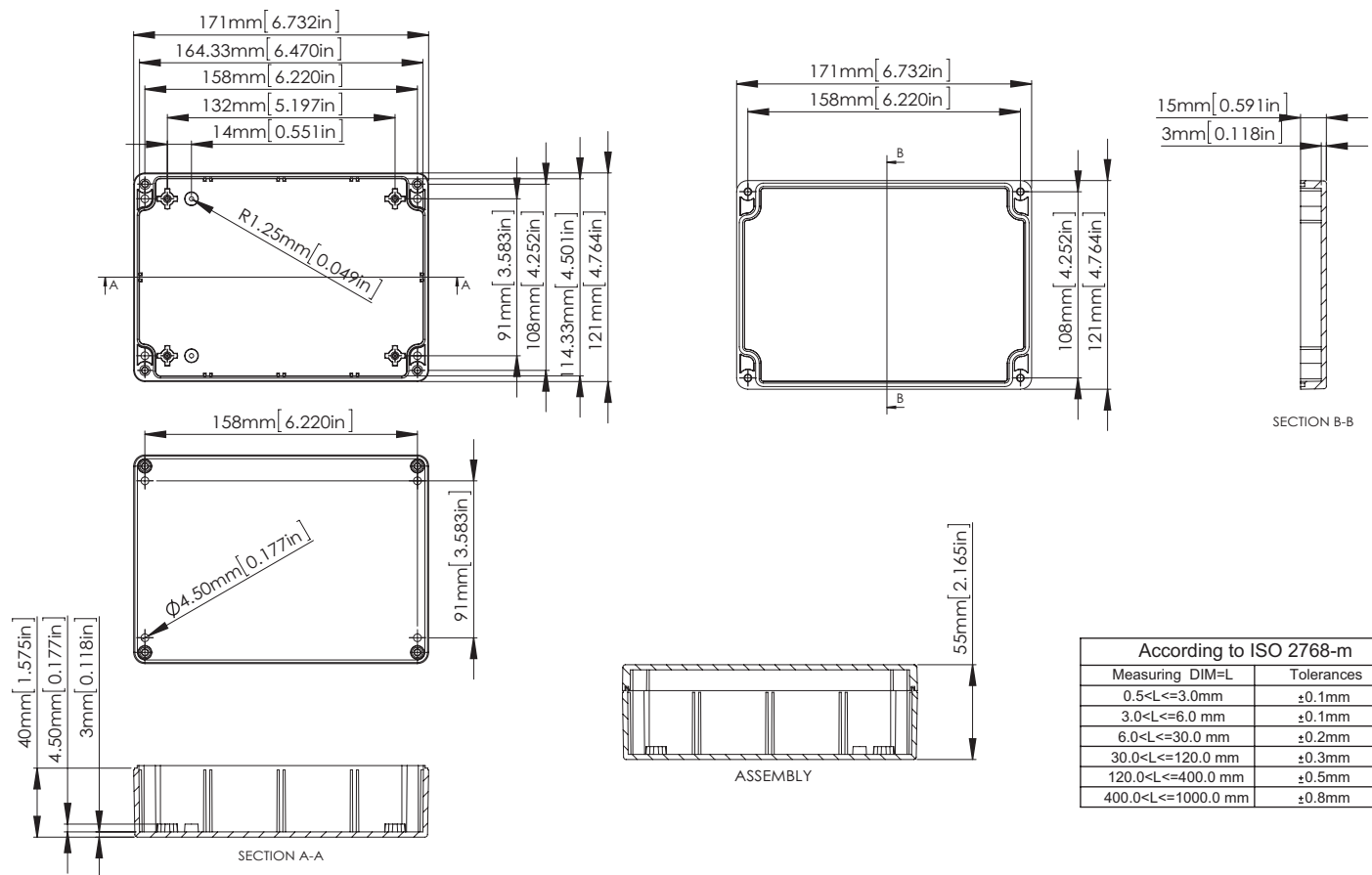
G205-IP67 / G205C-IP67 / G308-IP67



G212-IP67 / G212C-IP67 / G311-IP67

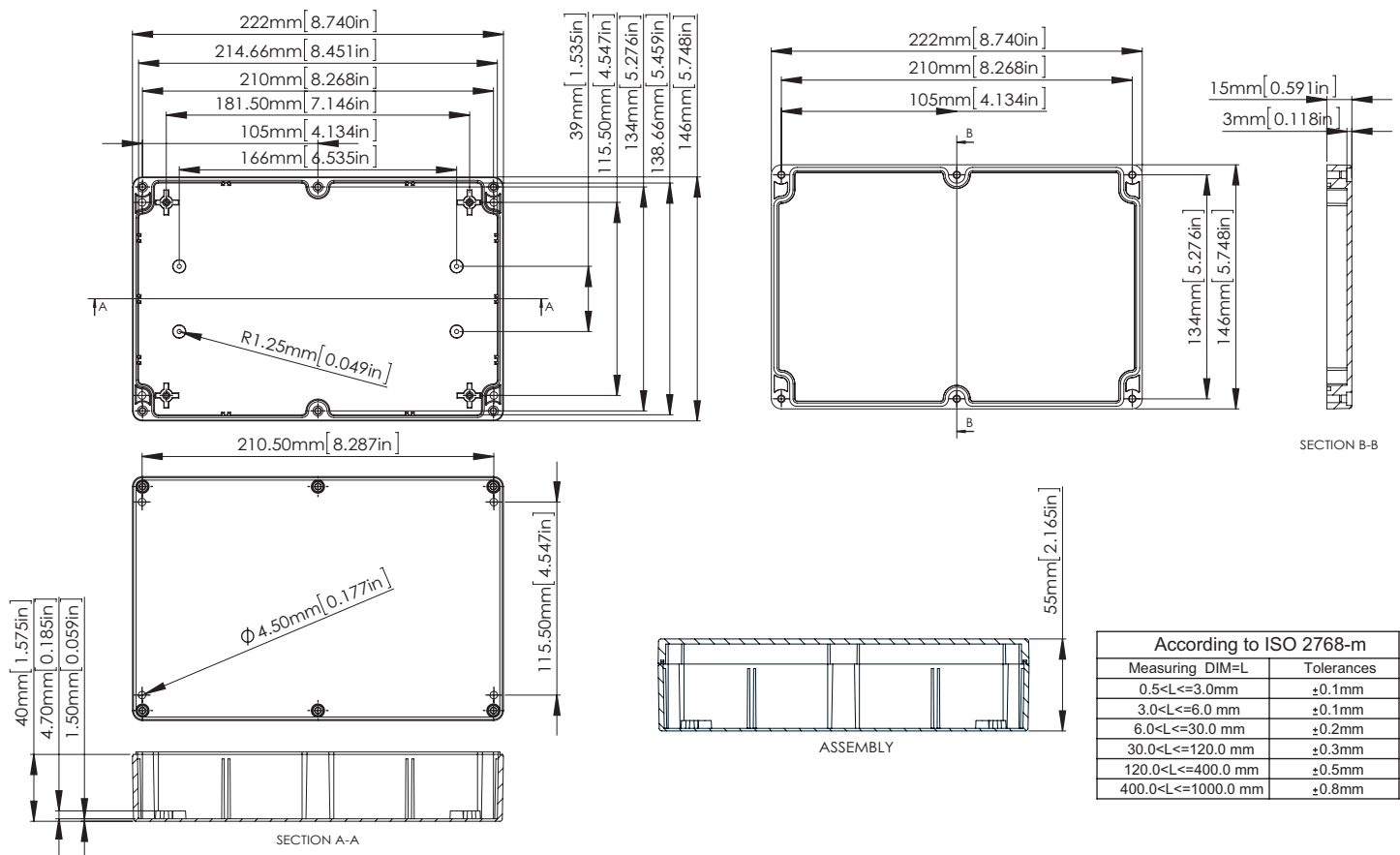


G214-IP67 / G214C-IP67 / G313-IP67



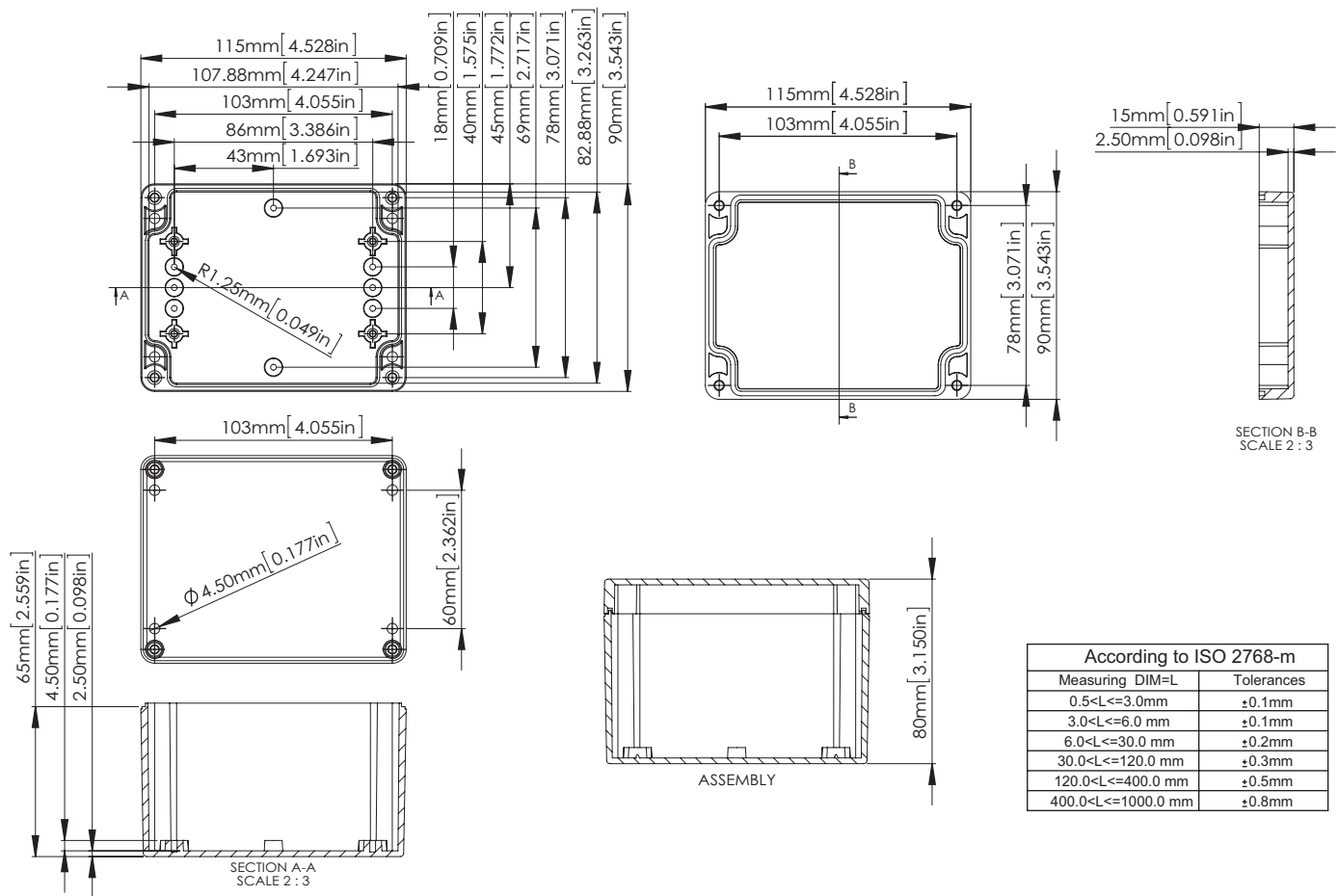
According to ISO 2768-m	
Measuring DIM=L	Tolerances
0.5<L≤3.0mm	±0.1mm
3.0<L≤6.0 mm	±0.1mm
6.0<L≤30.0 mm	±0.2mm
30.0<L≤120.0 mm	±0.3mm
120.0<L≤400.0 mm	±0.5mm
400.0<L≤1000.0 mm	±0.8mm

G218-IP67 / G218C-IP67 / G317-IP67

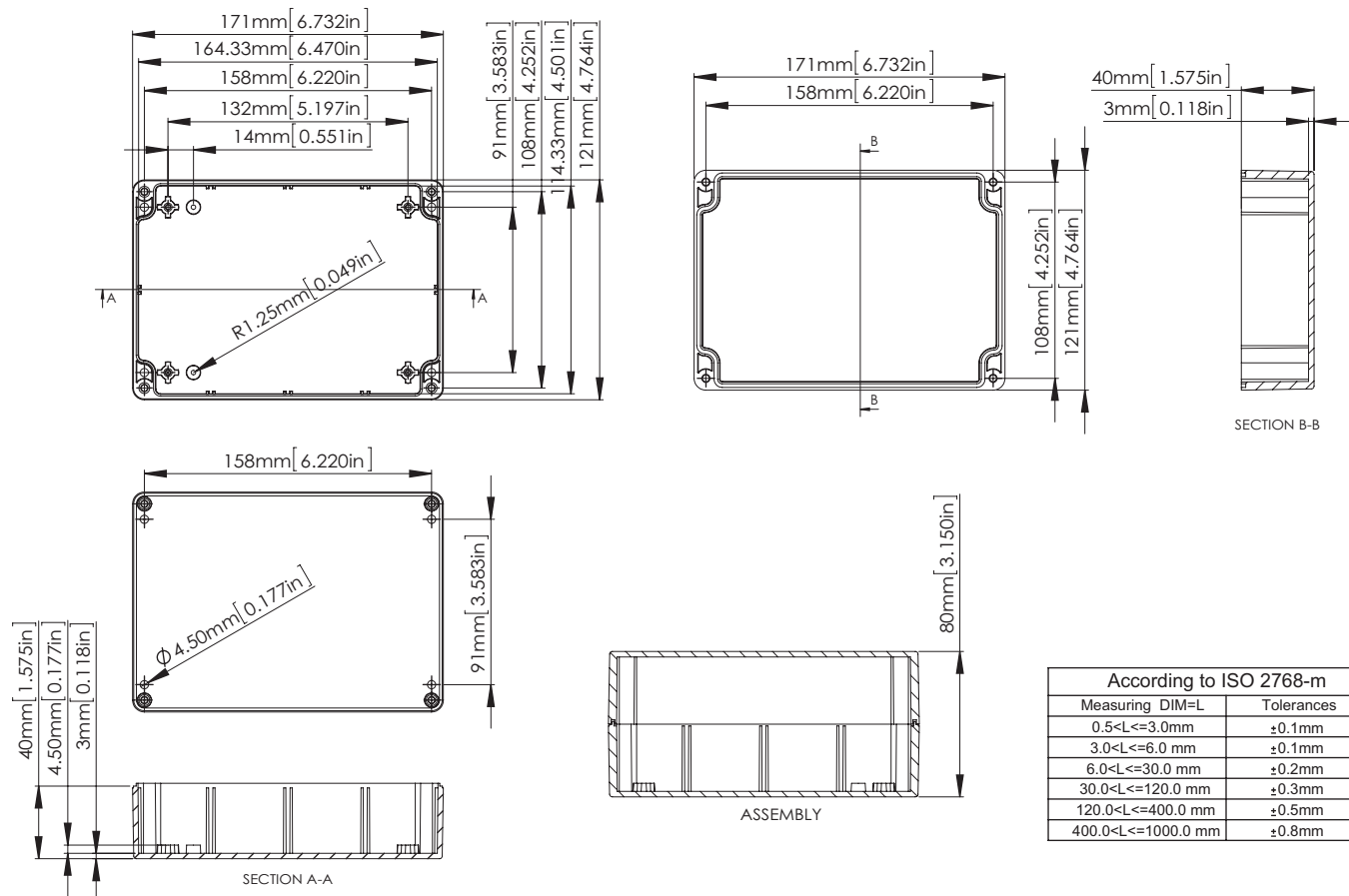


According to ISO 2768-m	
Measuring DIM=L	Tolerances
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3.0<L≤6.0 mm	±0.1mm
6.0<L≤30.0 mm	±0.2mm
30.0<L≤120.0 mm	±0.3mm
120.0<L≤400.0 mm	±0.5mm
400.0<L≤1000.0 mm	±0.8mm

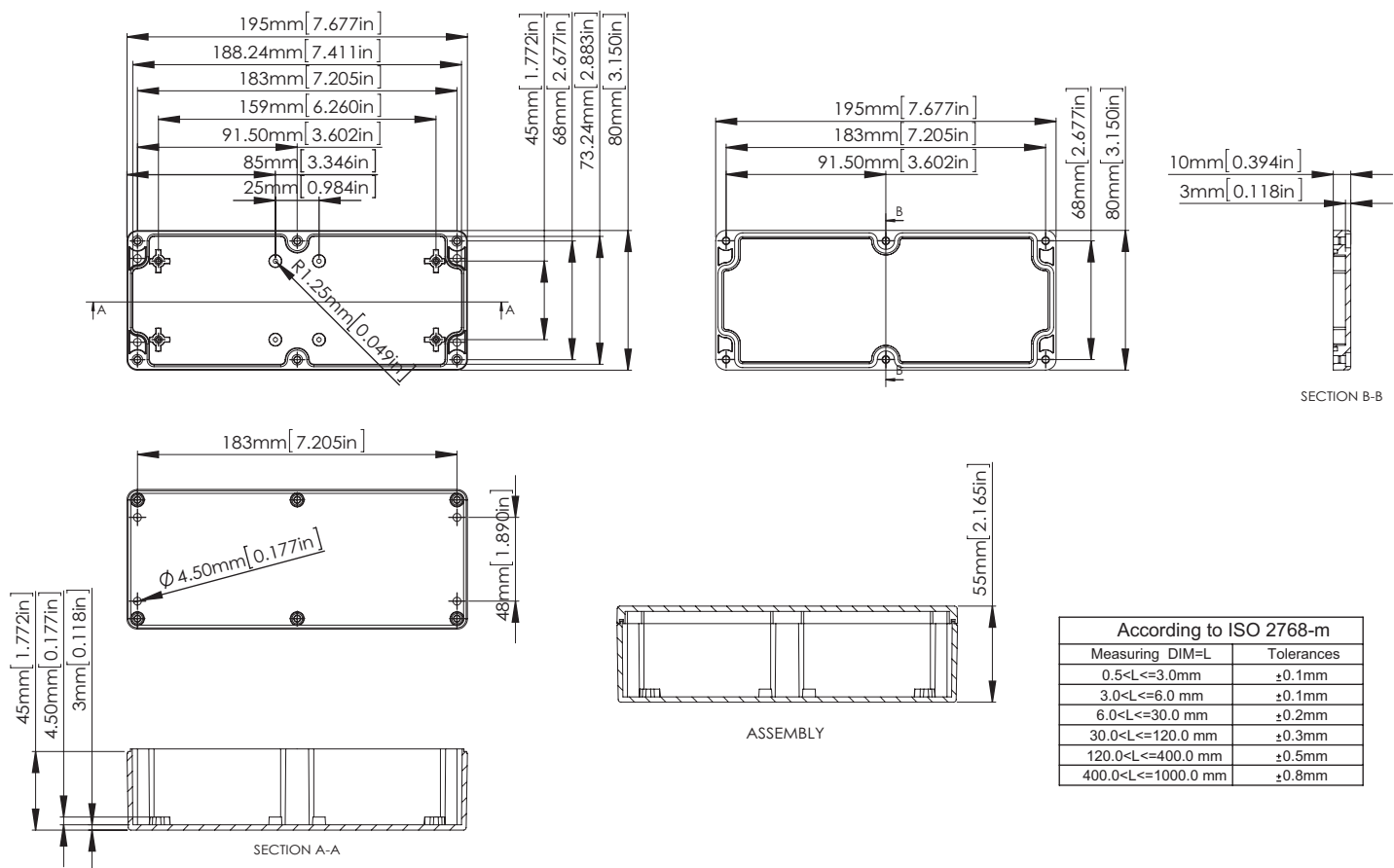
G221-IP67 / G221C-IP67 / G331-IP67



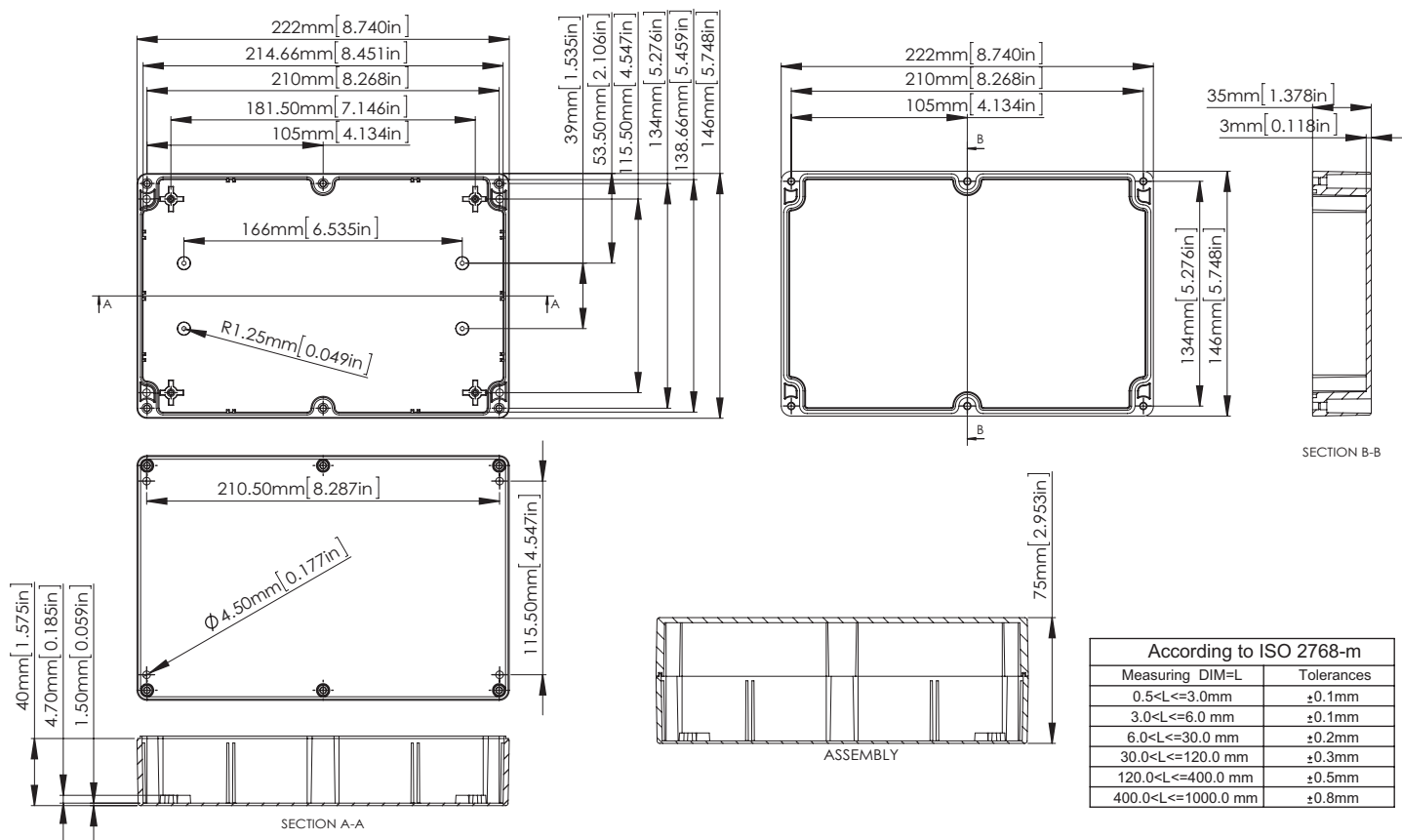
G223-IP67 / G223C-IP67 / G340-IP67



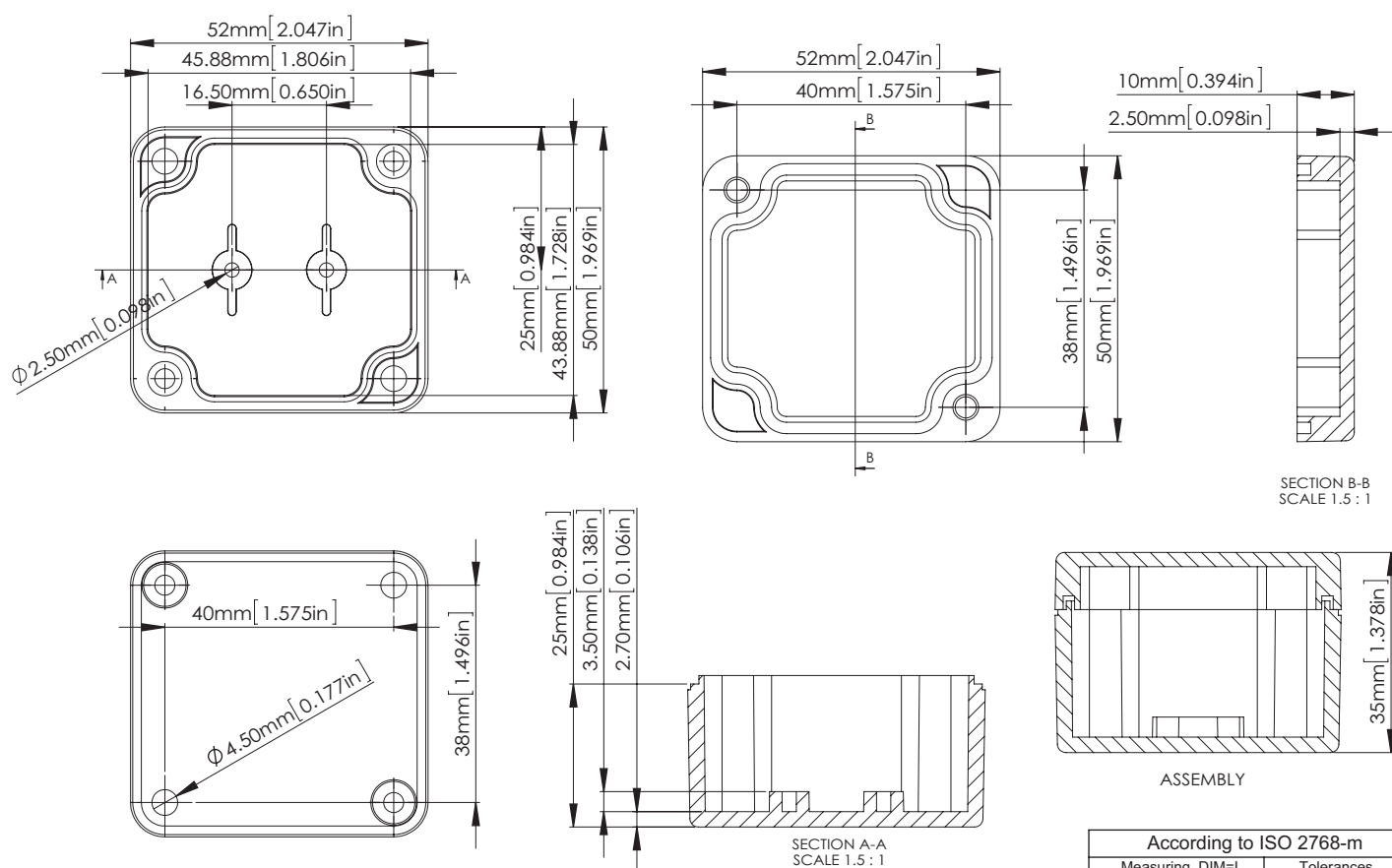
G229-IP67 / G229C-IP67 / G346-IP67



G232-IP67 / G232C-IP67 / G353-IP67



G250-IP67 / G250C-IP67 / G362-IP67



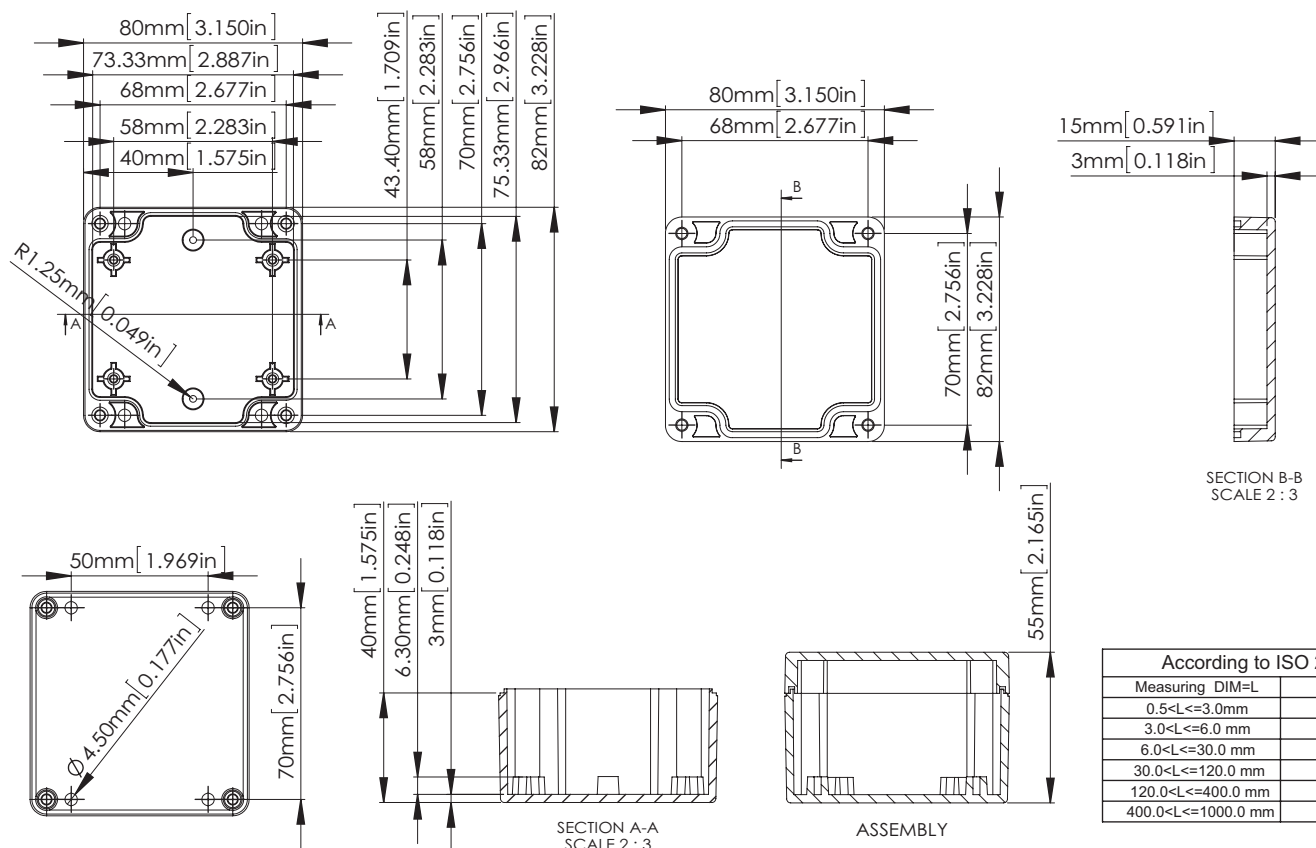
SECTION B-B
SCALE 1.5 : 1

ASSEMBLY

According to ISO 2768-m

Measuring DIM=L	Tolerances
0.5<L≤3.0mm	±0.1mm
3.0<L≤6.0 mm	±0.1mm
6.0<L≤30.0 mm	±0.2mm
30.0<L≤120.0 mm	±0.3mm
120.0<L≤400.0 mm	±0.5mm
400.0<L≤1000.0 mm	±0.8mm

G256-IP67 / G256C-IP67 / G366-IP67

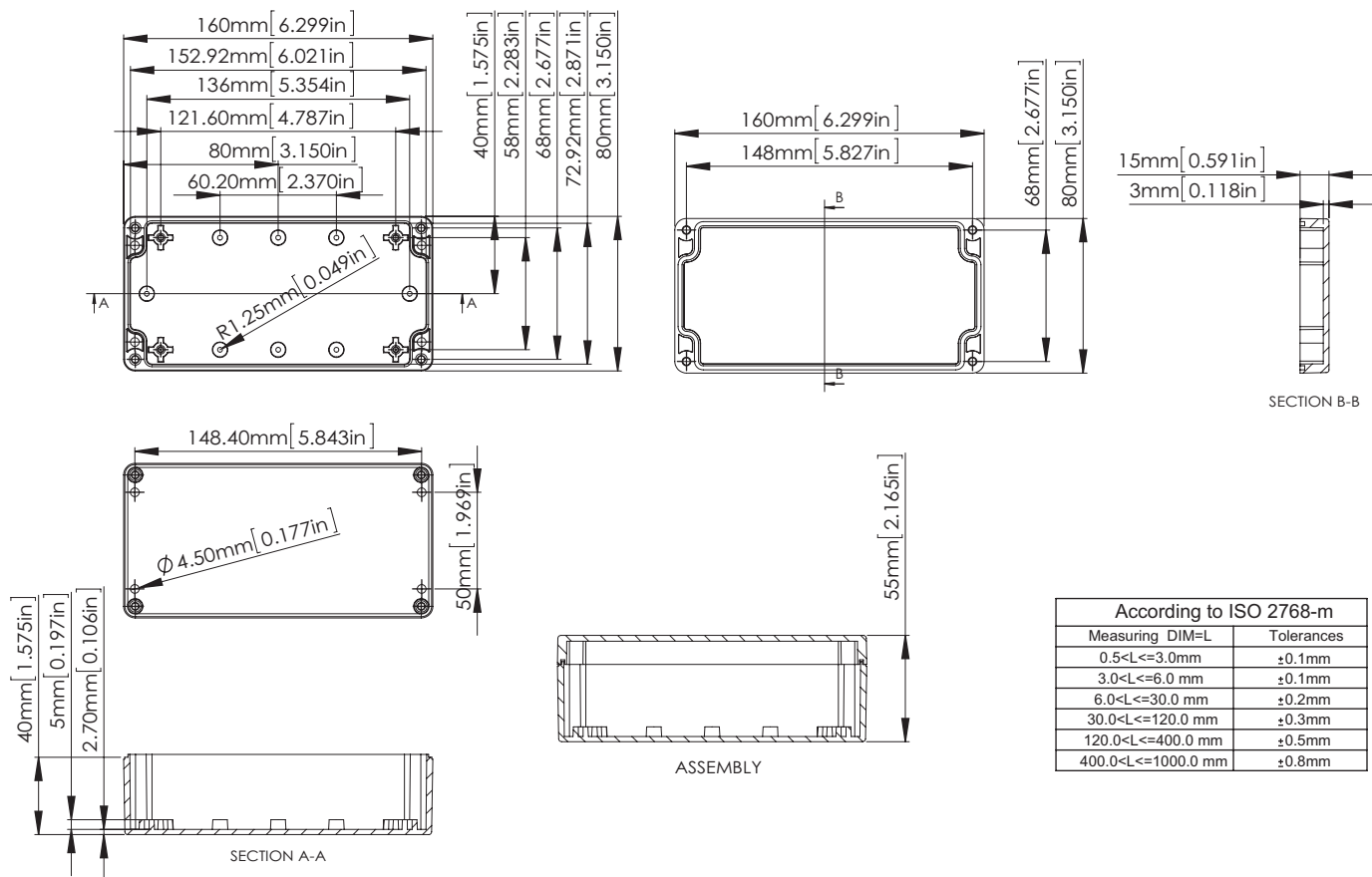


SECTION B-B
SCALE 2 : 3

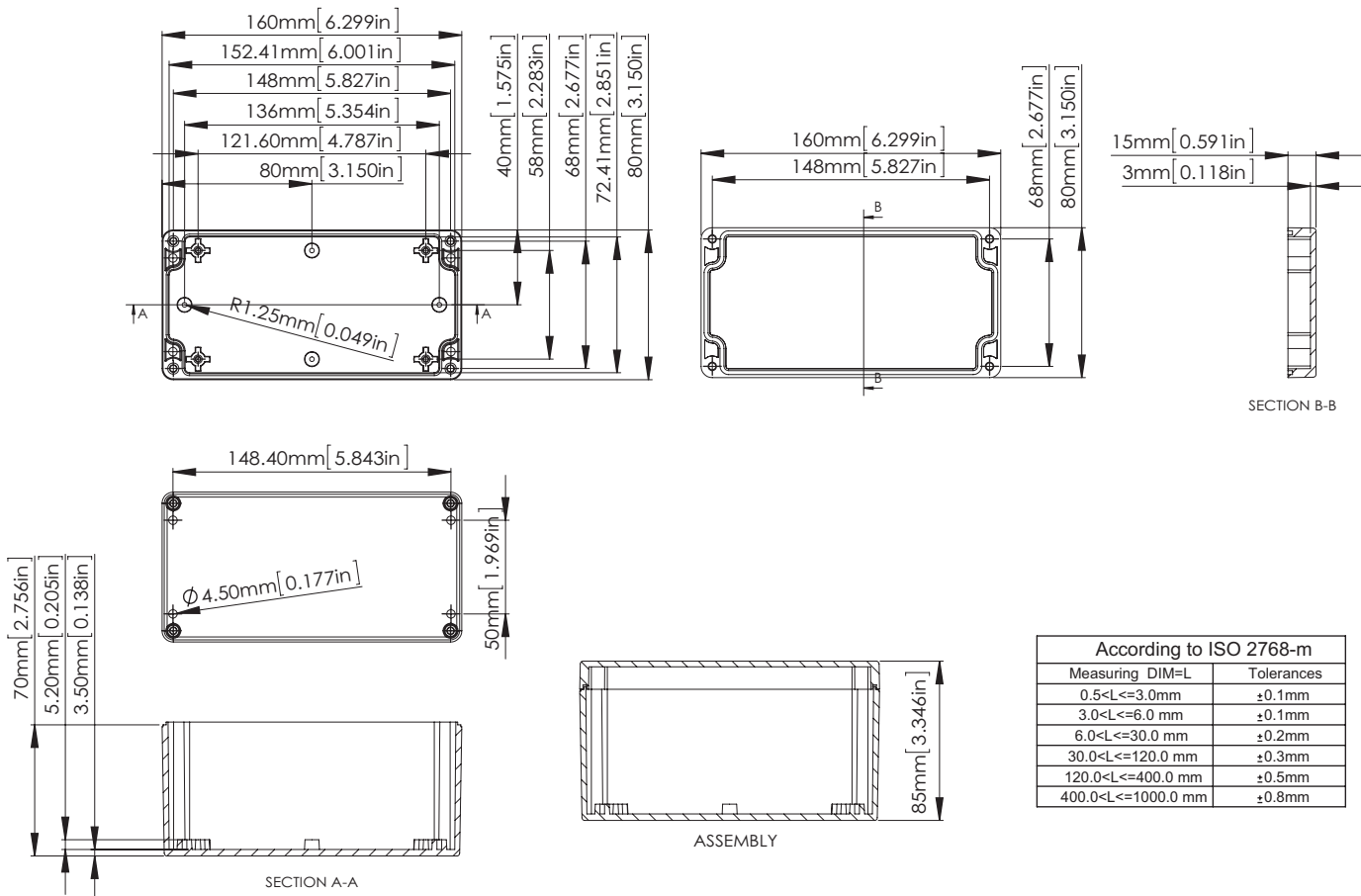
According to ISO 2768-m

Measuring DIM=L	Tolerances
0.5<L≤3.0mm	±0.1mm
3.0<L≤6.0 mm	±0.1mm
6.0<L≤30.0 mm	±0.2mm
30.0<L≤120.0 mm	±0.3mm
120.0<L≤400.0 mm	±0.5mm
400.0<L≤1000.0 mm	±0.8mm

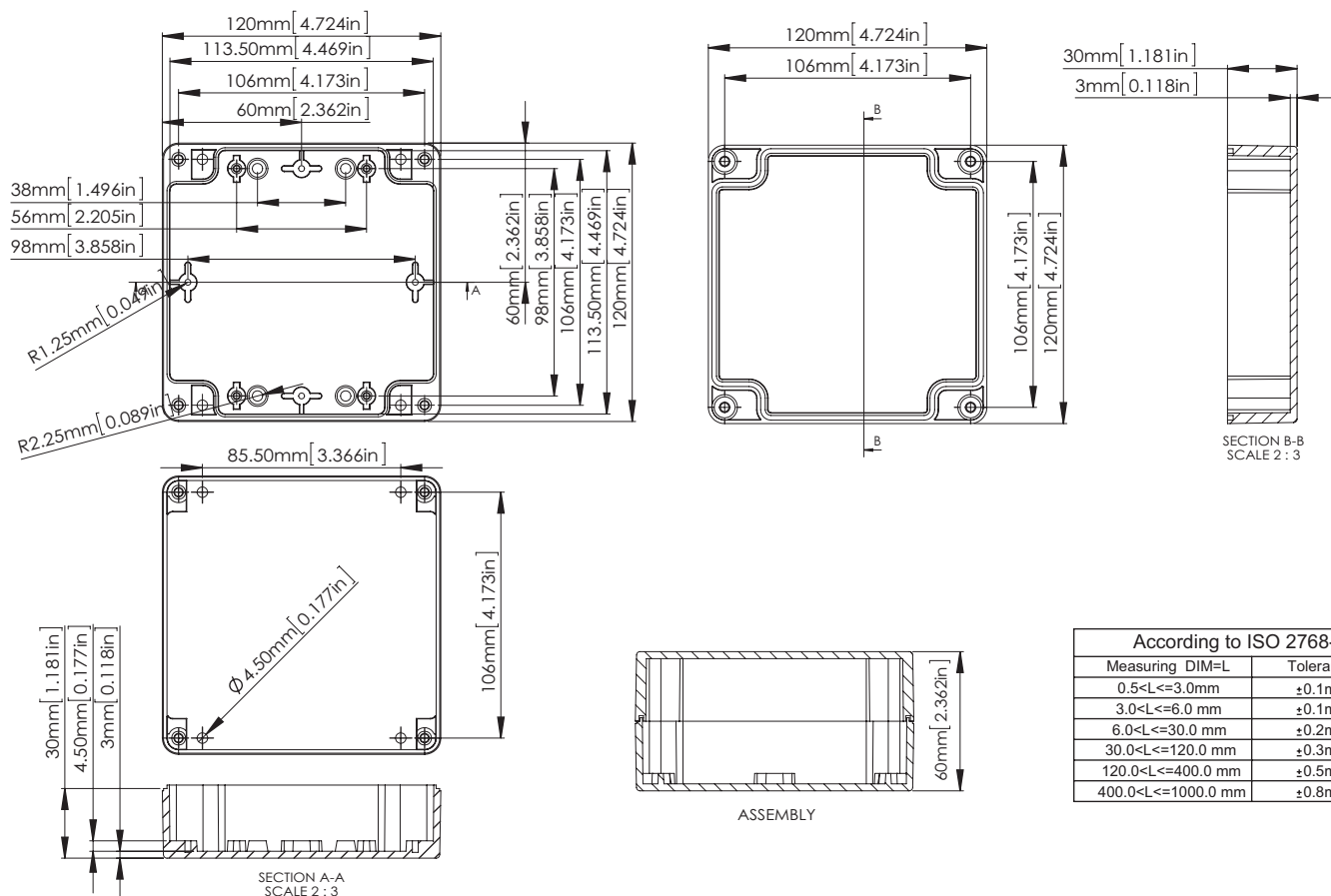
G258-IP67 / G258C-IP67 / G368-IP67



G265-IP67 / G265C-IP67 / G369-IP67

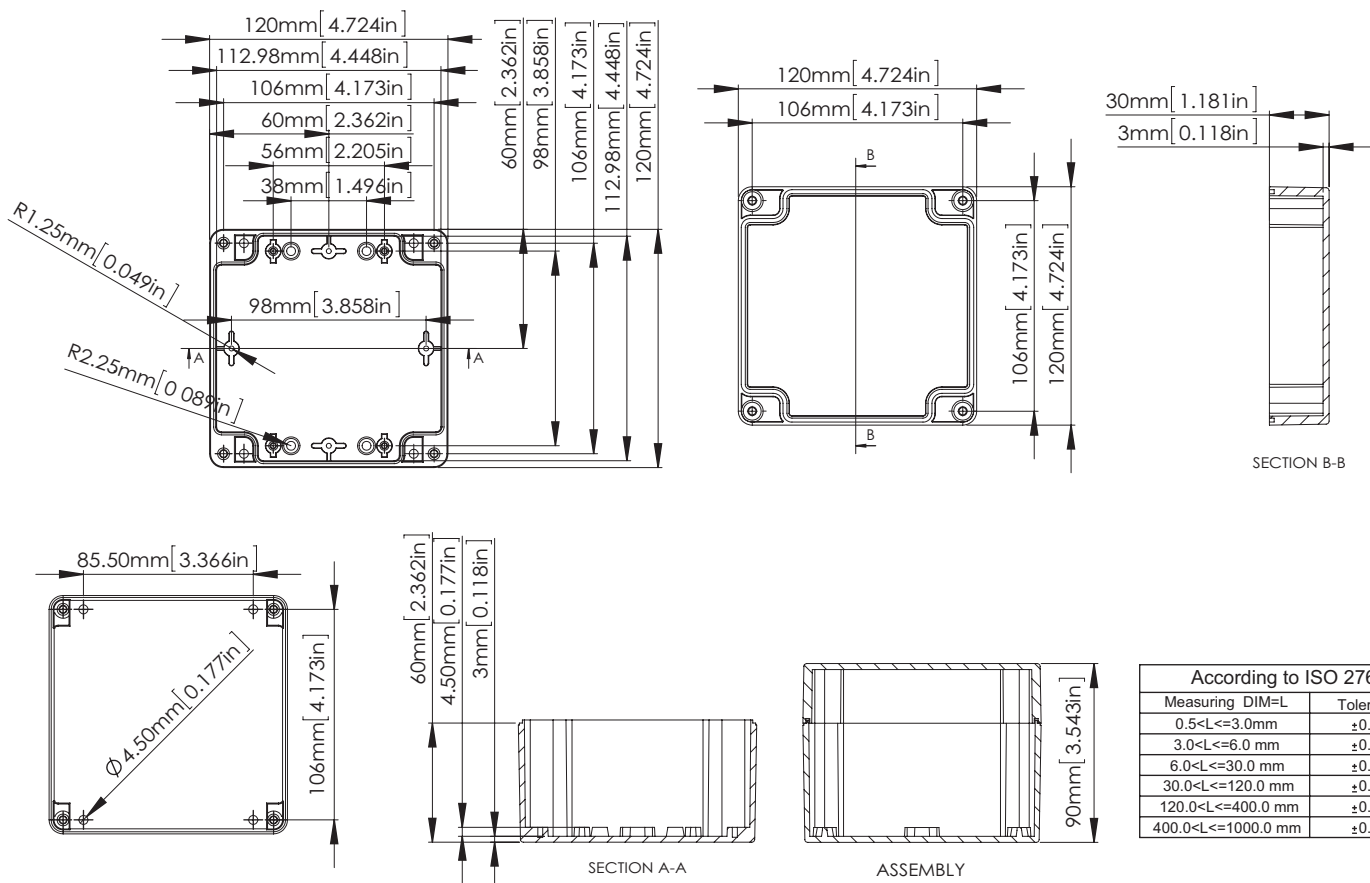


G278-IP67 / G278C-IP67 / G386-IP67



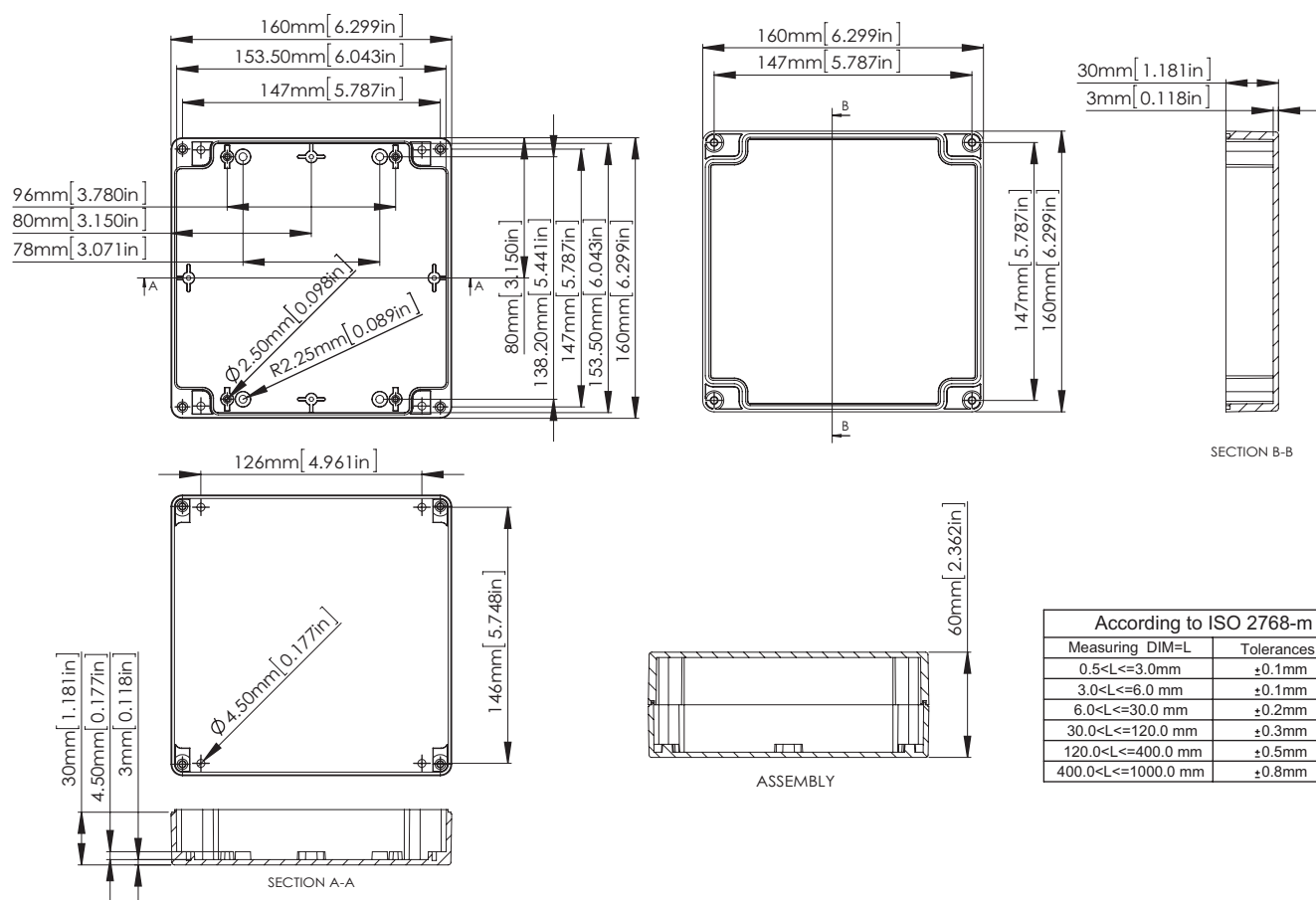
According to ISO 2768-m	
Measuring DIM=L	Tolerances
0.5<L≤3.0mm	±0.1mm
3.0<L≤6.0 mm	±0.1mm
6.0<L≤30.0 mm	±0.2mm
30.0<L≤120.0 mm	±0.3mm
120.0<L≤400.0 mm	±0.5mm
400.0<L≤1000.0 mm	±0.8mm

G279-IP67 / G279C-IP67 / G387-IP67

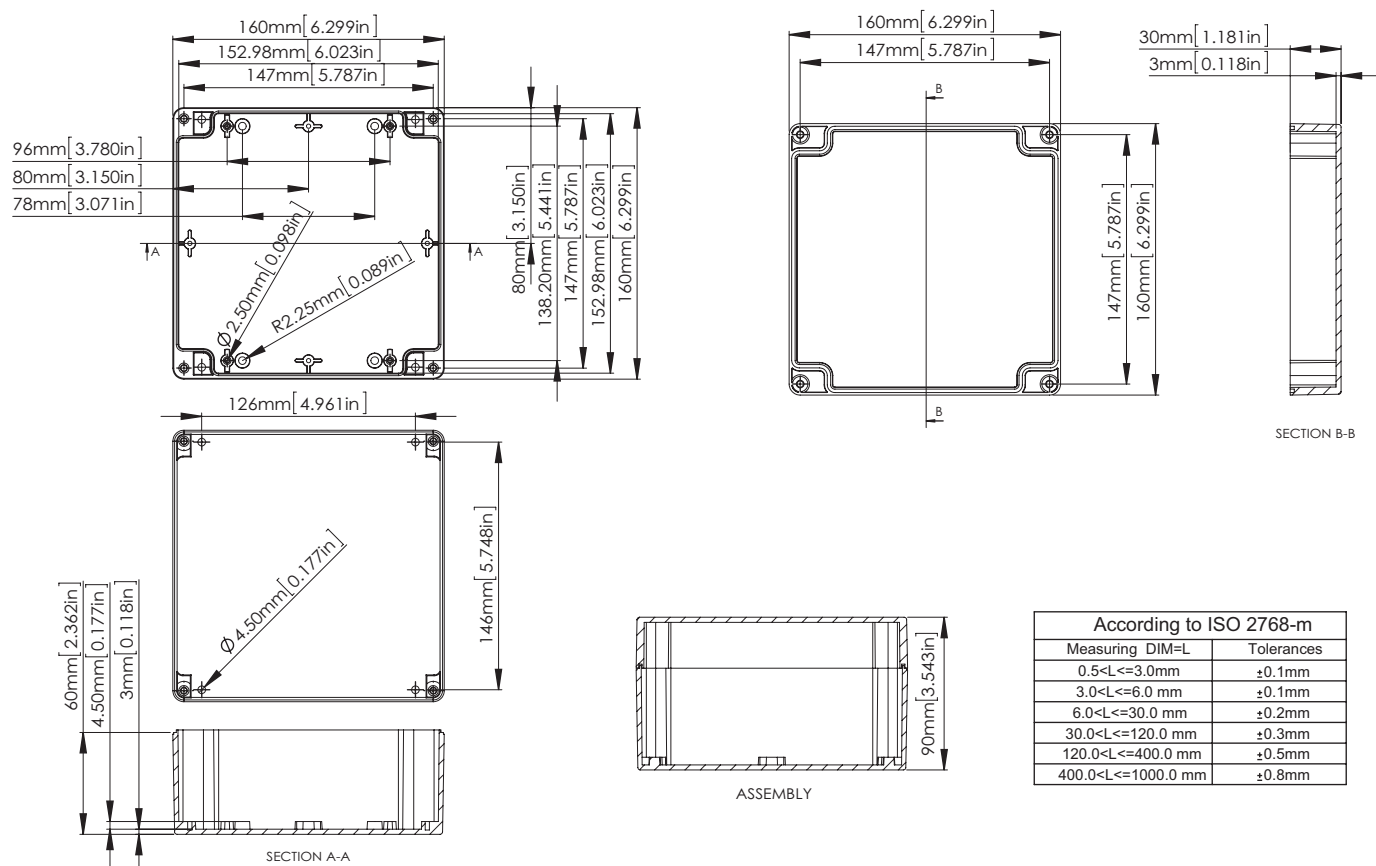


According to ISO 2768-m	
Measuring DIM=L	Tolerances
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3.0<L≤6.0 mm	±0.1mm
6.0<L≤30.0 mm	±0.2mm
30.0<L≤120.0 mm	±0.3mm
120.0<L≤400.0 mm	±0.5mm
400.0<L≤1000.0 mm	±0.8mm

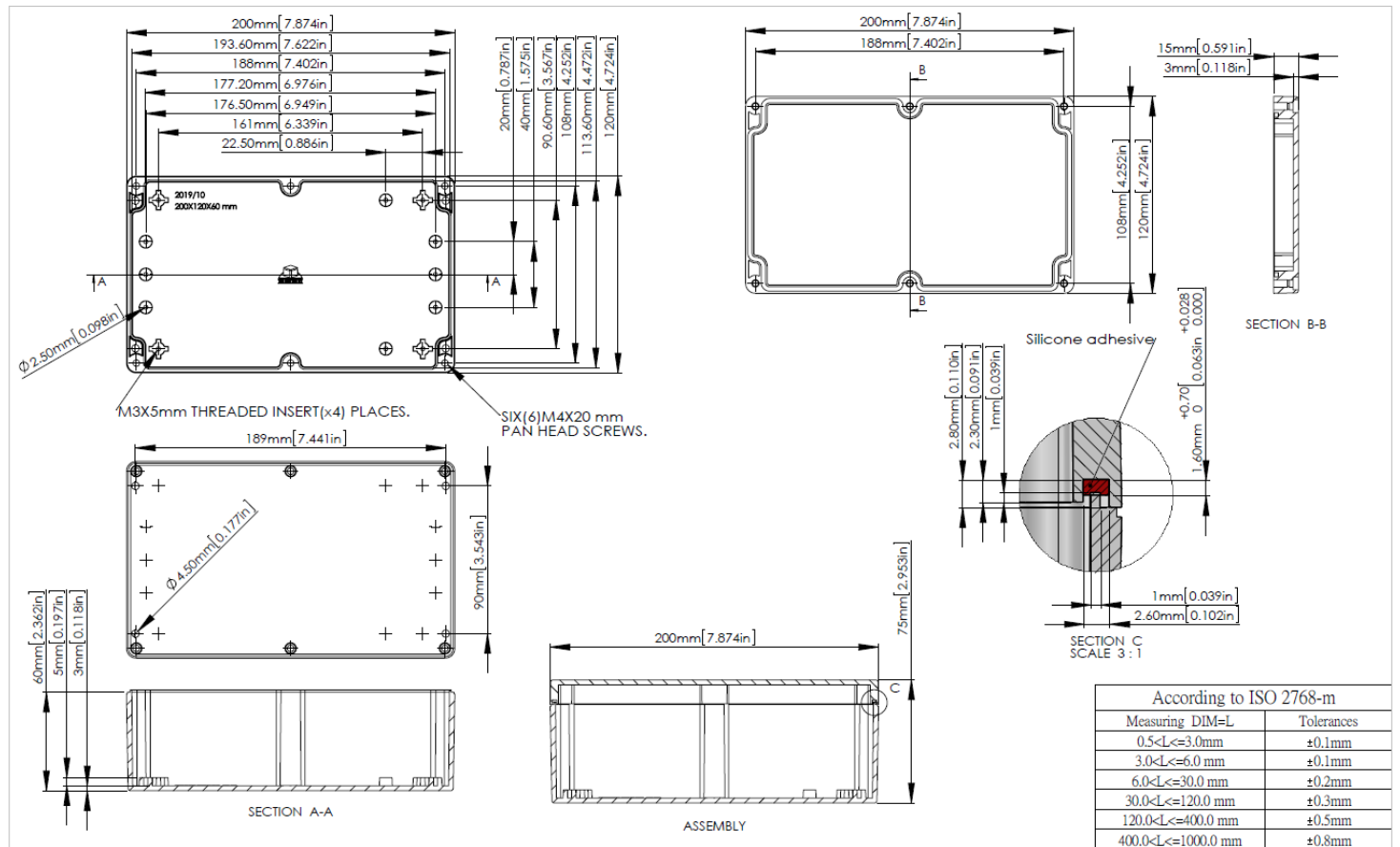
G287-IP67 / G287C-IP67 / G396-IP67



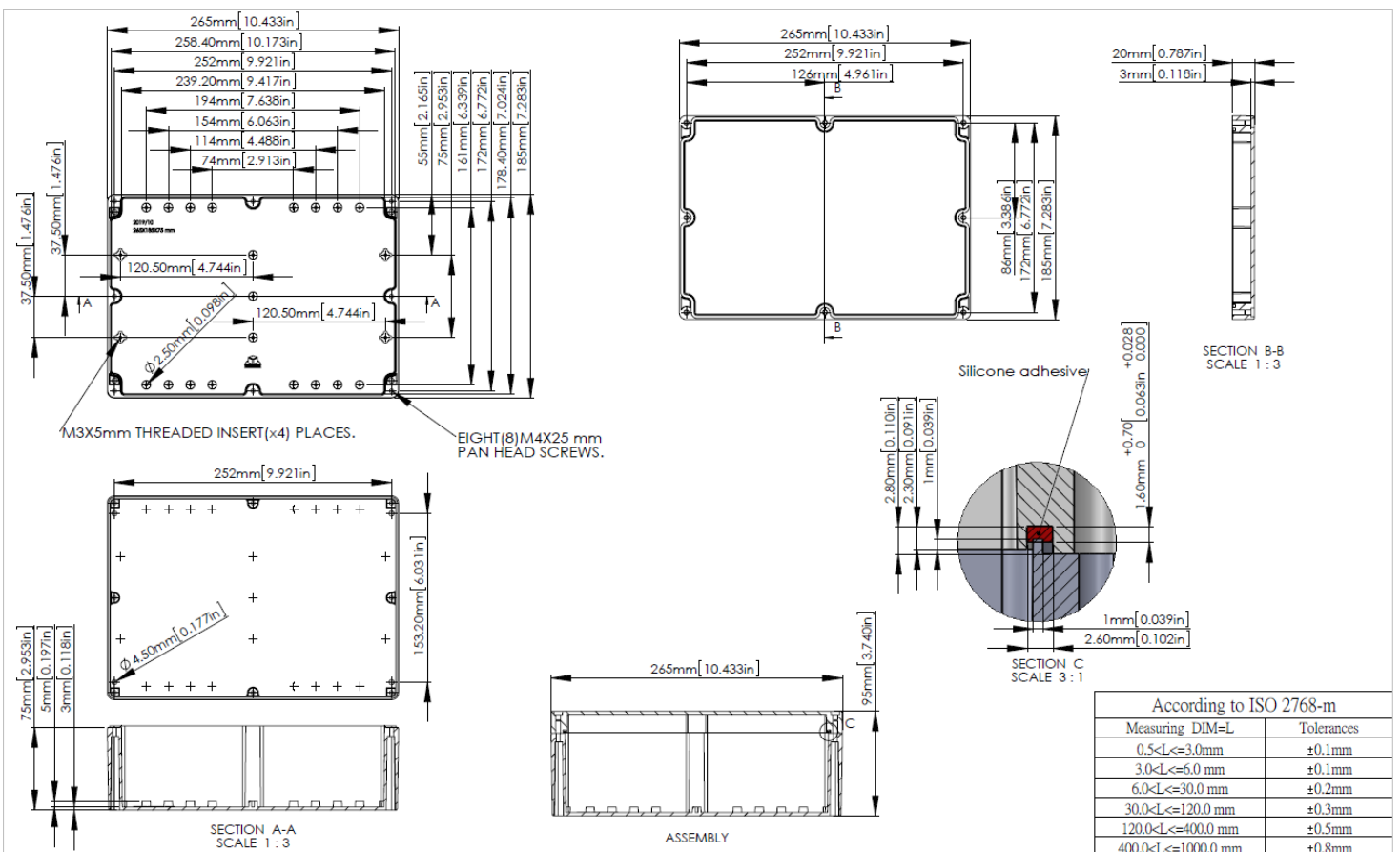
G288-IP67 / G288C-IP67 / G399-IP67



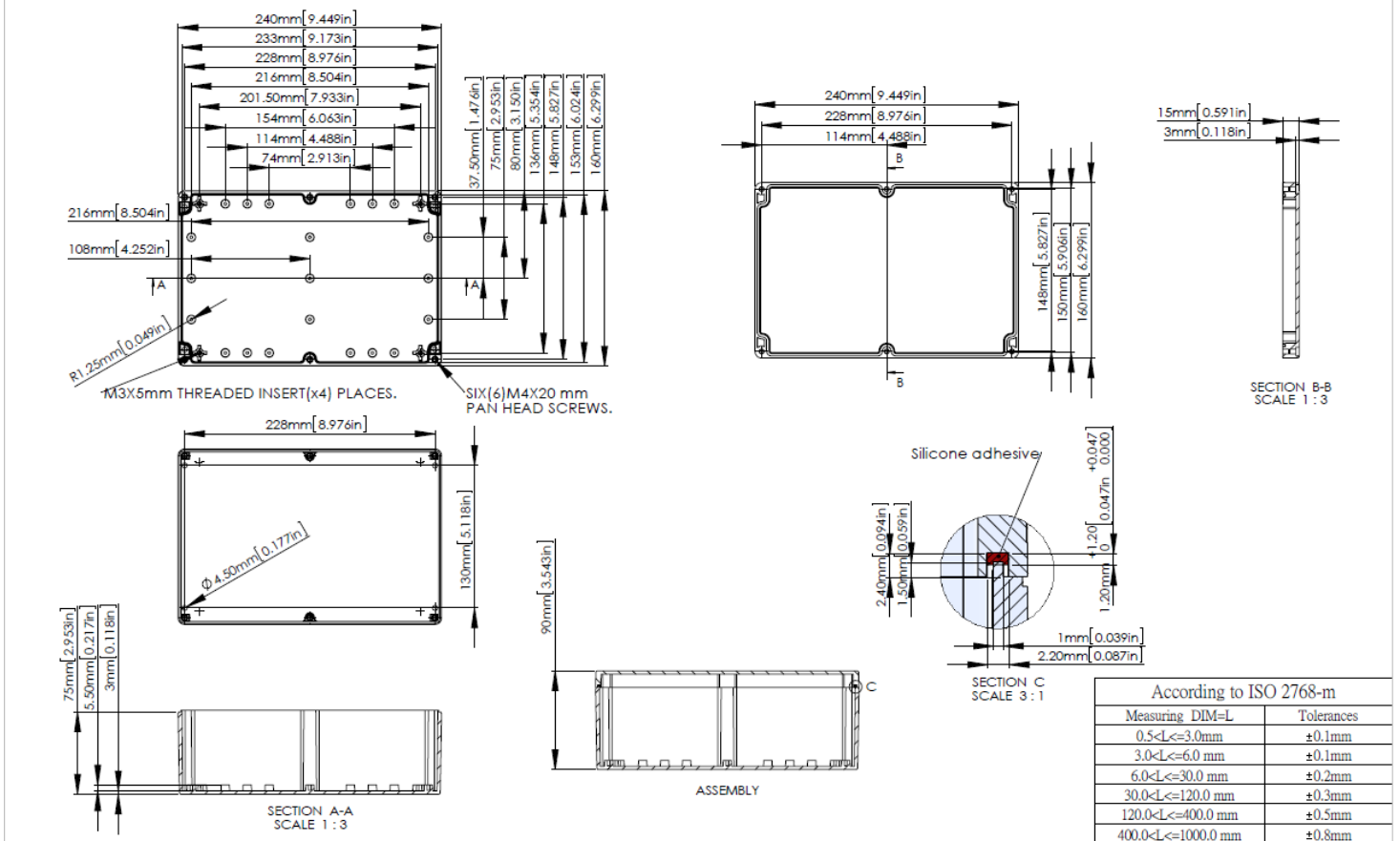
G2691-IP67 / G2691C-IP67 / G3735-IP67



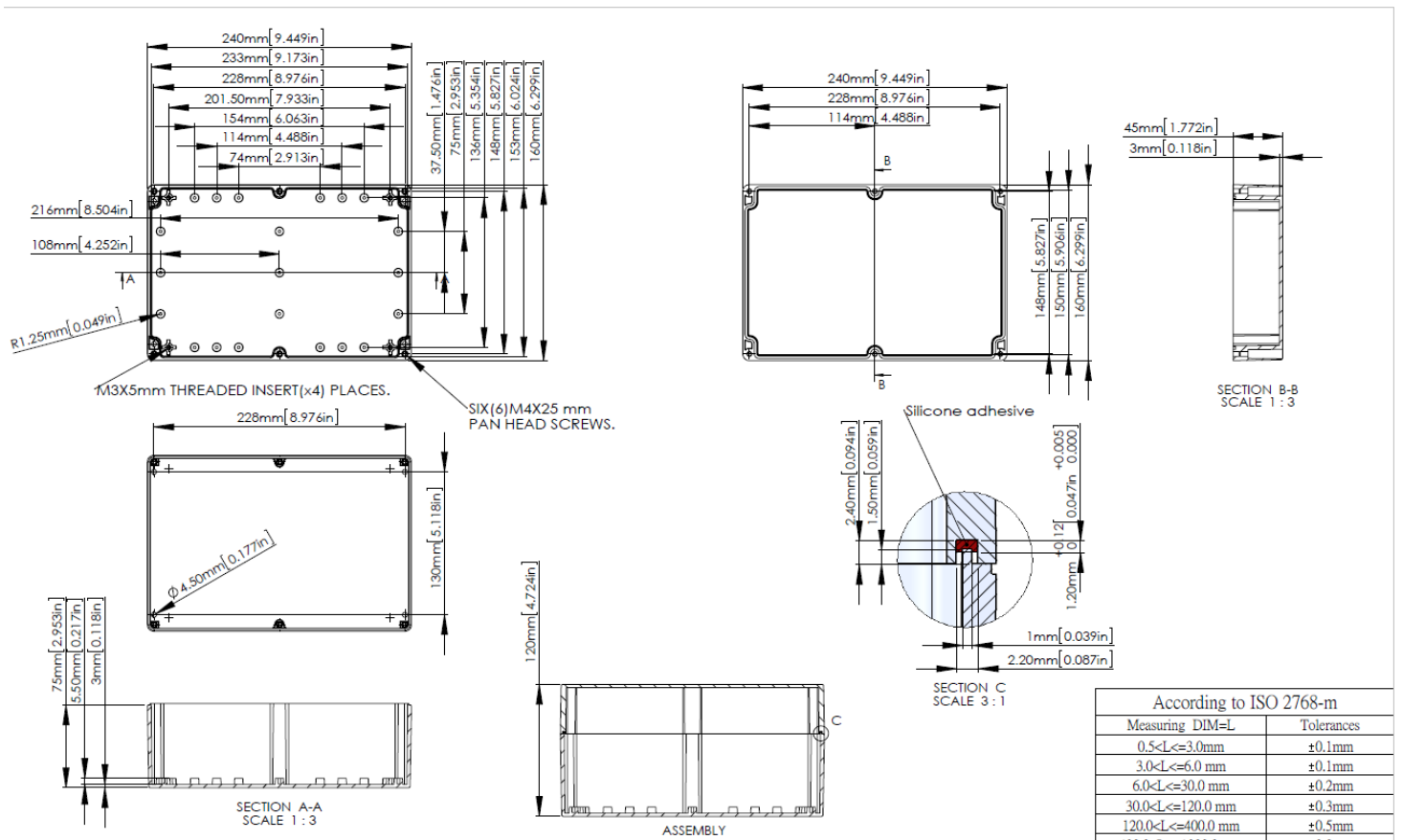
G2385-IP67 / G2385C-IP67 / G3783-IP67



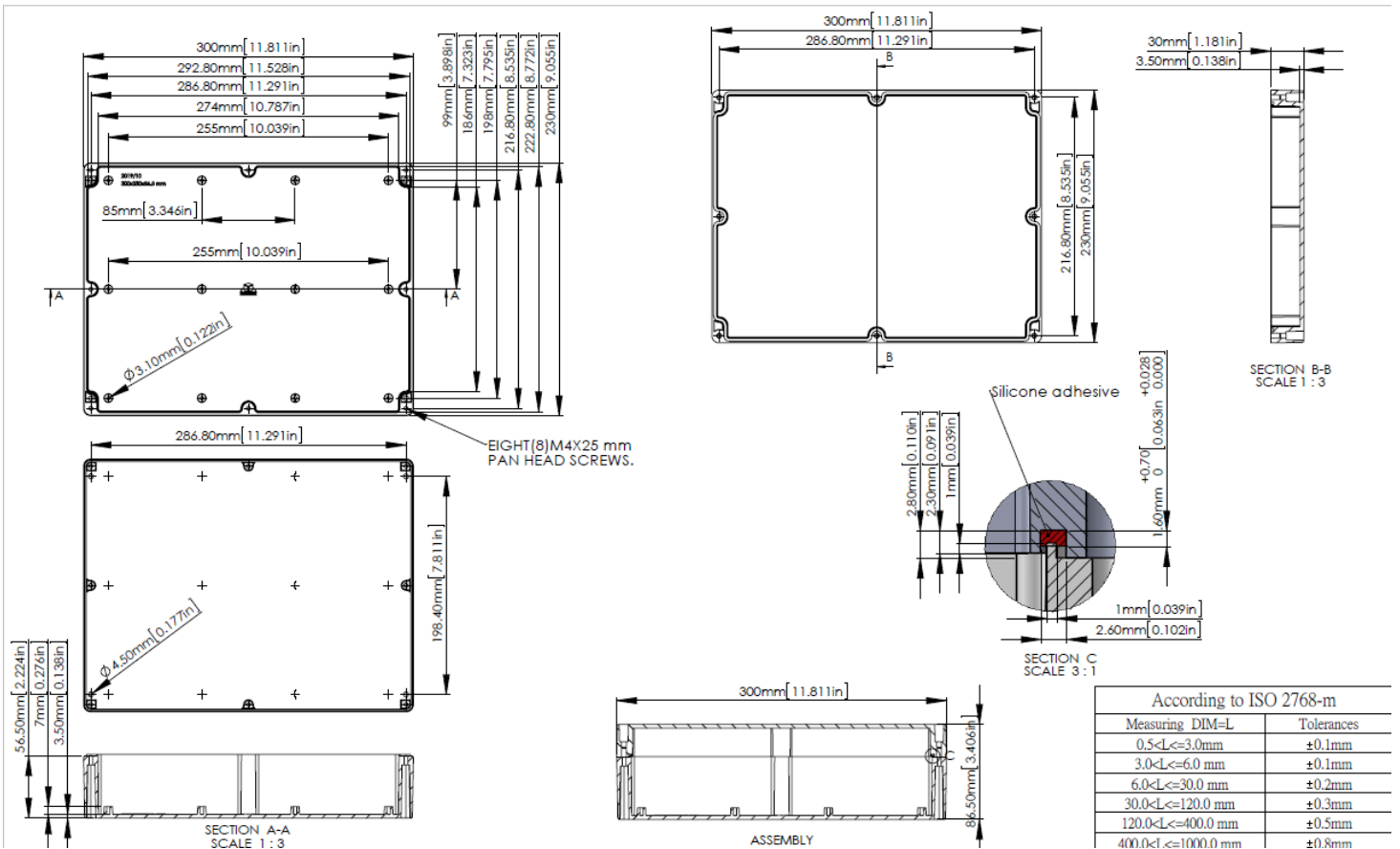
G2018-IP67 / G2018C-IP67 / G3008-IP67



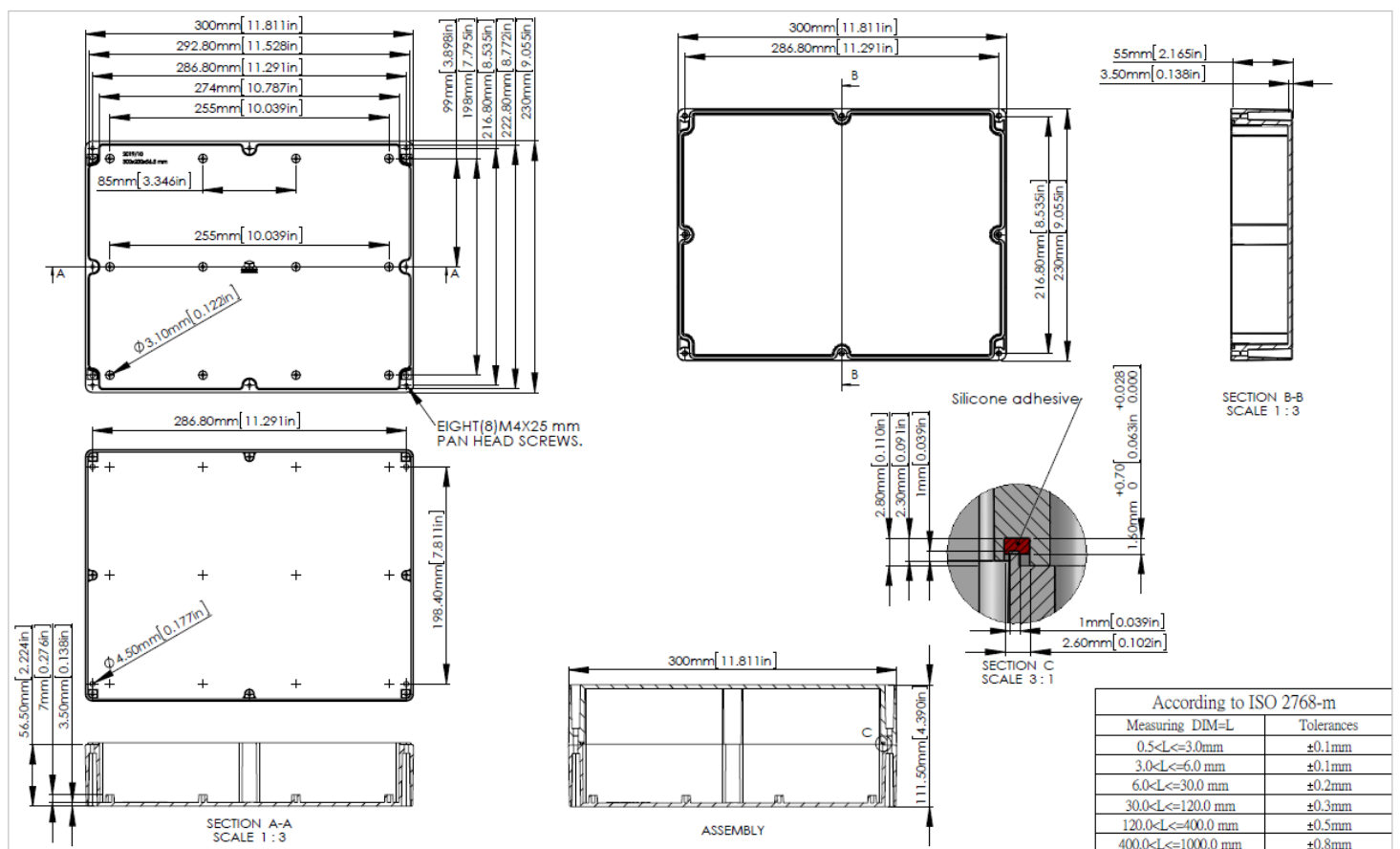
G2025-IP67 / G2025C-IP67 / G3019-IP67



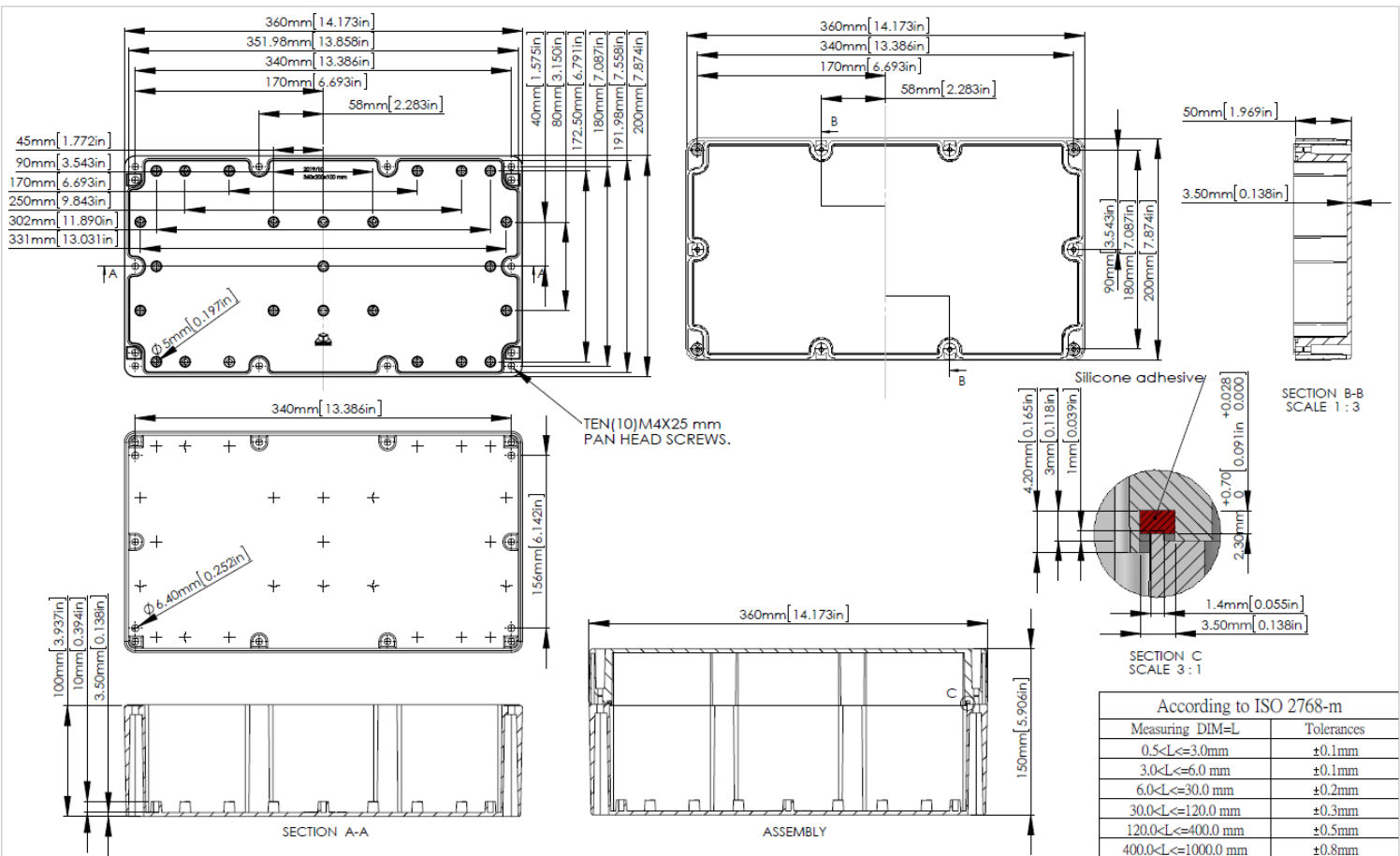
G20295-IP67 / G20295C-IP67 / G30285-IP67



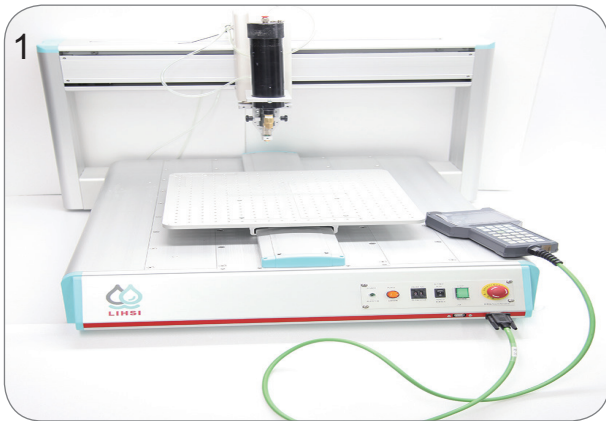
G20385-IP67 / G20385C-IP67 / G30312-IP67



G20583-IP67 / G20583C-IP67 / G30393-IP67



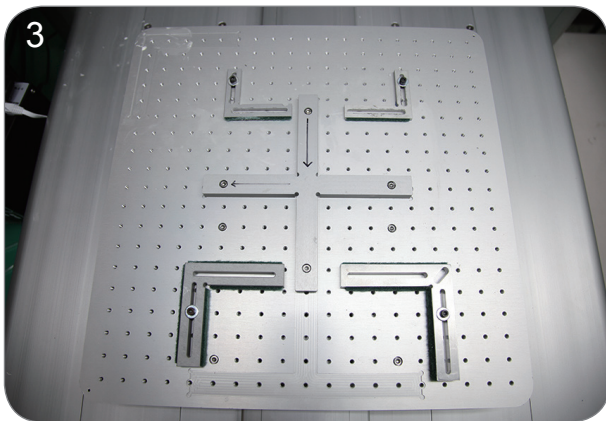
How to install & inspect the silicone adhesive



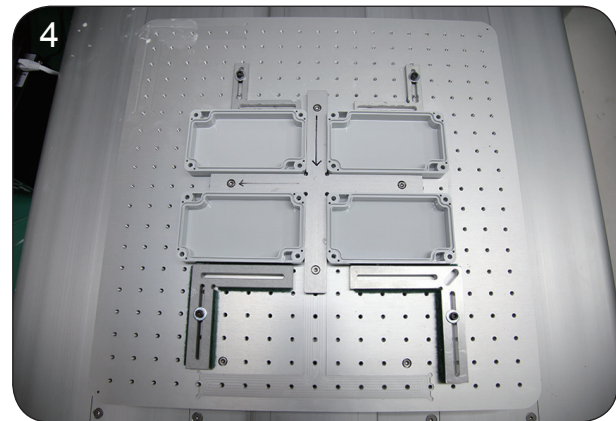
Dispensing Robot Dispenser



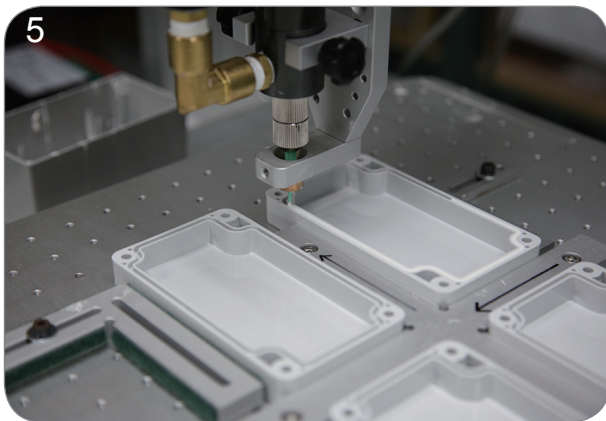
Setup the dispensing program



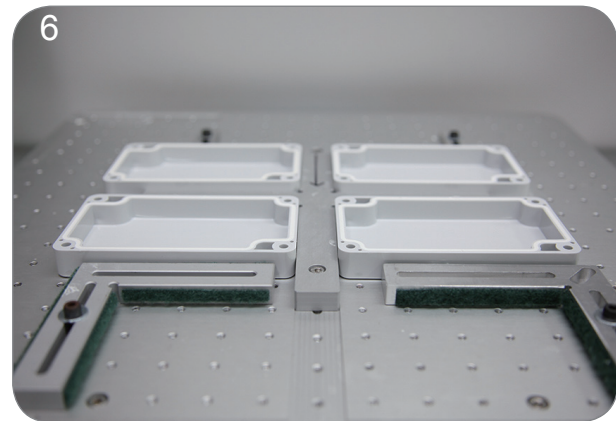
Install the fixtures in the dispenser



Put the covers in the dispenser



Start dispensing



Visual inspection



24 hours drying



Check the depth and make sure the adhesive installation is OK

Internal testing of the IP67 water resistance

Ingress Protection (IP) Ratings

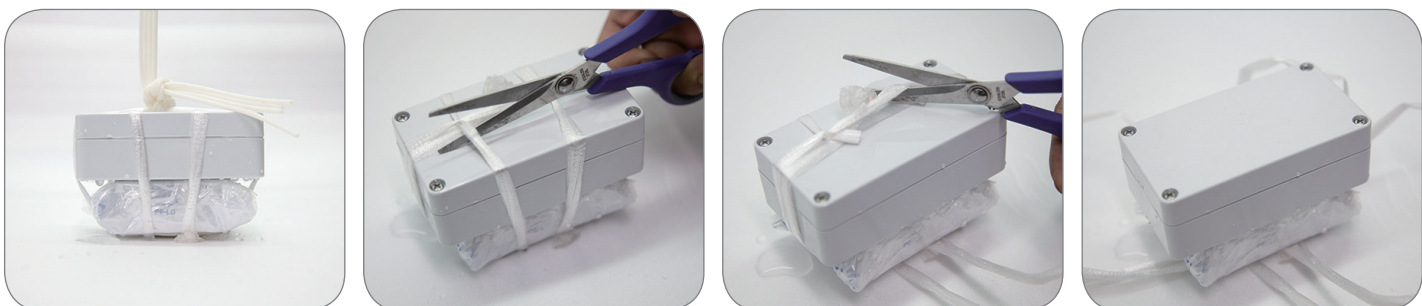
I P **6** **7**

1 st Digit	Definition
0	No Protection against contact and ingress of objects
1	Protected against any large surface of the body, such as the back of a hand. Protected against solid objects greater than 50mm in size.
2	Protected against access to hazardous parts by a finger or similar object. Protected against solid objects greater than 12.5mm in size.
3	Protected against access to hazardous parts with a tool or thick wire. Protected against solid objects greater than 2.5mm in size.
4	Protected against access to hazardous parts with a wire, screw, etc. Protected against solid objects greater than 1mm in size.
5	Protected against access to hazardous parts. Dust protected.
6	Protected against access to hazardous parts. Dust-tight.

2 nd Digit	Definition
0	No Protection
1	Protected against water drops
2	Protected against water drops at a 15 degree angle
3	Protected against water spray at 60 degree angle
4	Protected against water splashing from any angle
5	Protected against water jets from any angle
6	Protected against powerful water jets and heavy seas
7	Protected against the effects of temporary submersion in water. Test requires 30 minutes at 1 meter depth.
8	Protected against the effects of temporary submersion. Customer specification applies and specific testing may be required.
9K	Protects against high pressures associated with steam cleaning.



1. Assemble the metal with the testing box , put the testing box into the water tank
2. Make sure the testing box can be installed under the water (1M depth for 30 minutes.)



3. Open and check the box

G2XXMF-IP67 / G3XXMF-IP67 SERIES

SEALED IP67 POLYCARBONATE AND ABS ENCLOSURES WITH MOUNTING FLANGE



PRODUCT INFORMATION

- The lid and base incorporate a tongue and groove sealing system with silicone adhesive.
- Wall mounting holes and lid fixing screws are outside the sealing area thus preventing the ingress of moisture and dust.
- Design to IP67 of IEC 529 (Dust and Hoseproof).
- Bosses on internal base allow fixing of PCB's horizontally or connection of terminals with M3X4mm self-tapping screws.
- Internal guide slots for mounting PCB assemblies vertically.
- Available with clear or light grey lids.



G212MF-IP67



G205CMF-IP67



G362MF-IP67

PC

(G2XXMF
-IP67)
(G2XXCMF
-IP67)

- Material : Polycarbonate (UL94-HB)
 - Moulded in : Light grey
 - Operating temperature : -40°C to 120°C
 - Clear lid is available on request
 - Mounting flange is designed on the bottom of the base,
so the base can be mounted with pan head type of screws on the wall easily
- ** Detailed screw size please refer the product drawing



G212MF-IP67



G205CMF-IP67



G362MF-IP67

ABS

(G3XXMF
-IP67)

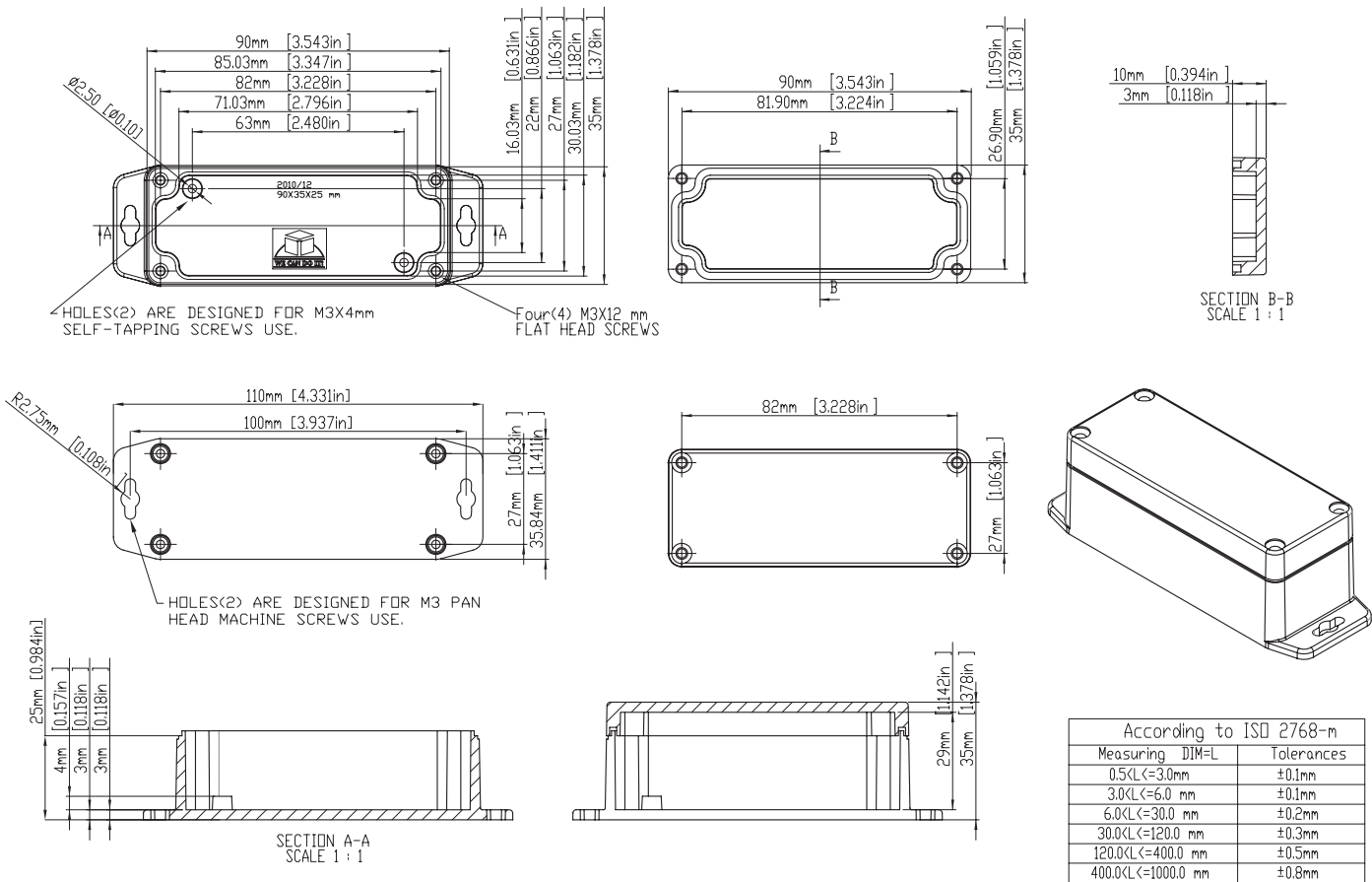
- Material : High Impact ABS (UL94-HB)
 - Moulded in : Dark grey
 - Operating temperature : -20°C to 80°C
 - Mounting flange is designed on the bottom of the base,
so the base can be mounted with pan head type of screws on the wall easily
- ** Detailed screw size please refer the product drawing

MATERIAL : POLYCARBONATE		EXTERNAL DIMENSION(mm)	MATERIAL : ABS
Light Grey Lid + Light Grey Base	Clear Lid + Light Grey Base		Dark Grey Lid + Dark Grey Base
Item No.	Item No.		Item no.
G200MF-IP67	G200CMF-IP67	90 x 35 x 35	G300MF-IP67
G201MF-IP67	G201CMF-IP67	64 x 58 x 35	G302MF-IP67
G203MF-IP67	G203CMF-IP67	115 x 65 x 40	G304MF-IP67
G205MF-IP67	G205CMF-IP67	115 x 65 x 55	G308MF-IP67
G212MF-IP67	G212CMF-IP67	115 x 90 x 55	G311MF-IP67
G214MF-IP67	G214CMF-IP67	171 x 121 x 55	G313MF-IP67
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G223MF-IP67	G223CMF-IP67	171 x 121 x 80	G340MF-IP67
G232MF-IP67	G232CMF-IP67	222 x 146 x 75	G353MF-IP67
G250MF-IP67	G250CMF-IP67	52 x 50 x 35	G362MF-IP67
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G258MF-IP67	G258CMF-IP67	160 x 80 x 55	G368MF-IP67
G265MF-IP67	G265CMF-IP67	160 x 80 x 85	G369MF-IP67
G278MF-IP67	G278CMF-IP67	120 x 120 x 60	G386MF-IP67
G279MF-IP67	G279CMF-IP67	120 x 120 x 90	G387MF-IP67
NEW G2691MF-IP67	G2691CMF-IP67	200 x 120 x 75	G3735MF-IP67
NEW G2385MF-IP67	G2385CMF-IP67	265 x 185 x 95	G3783MF-IP67

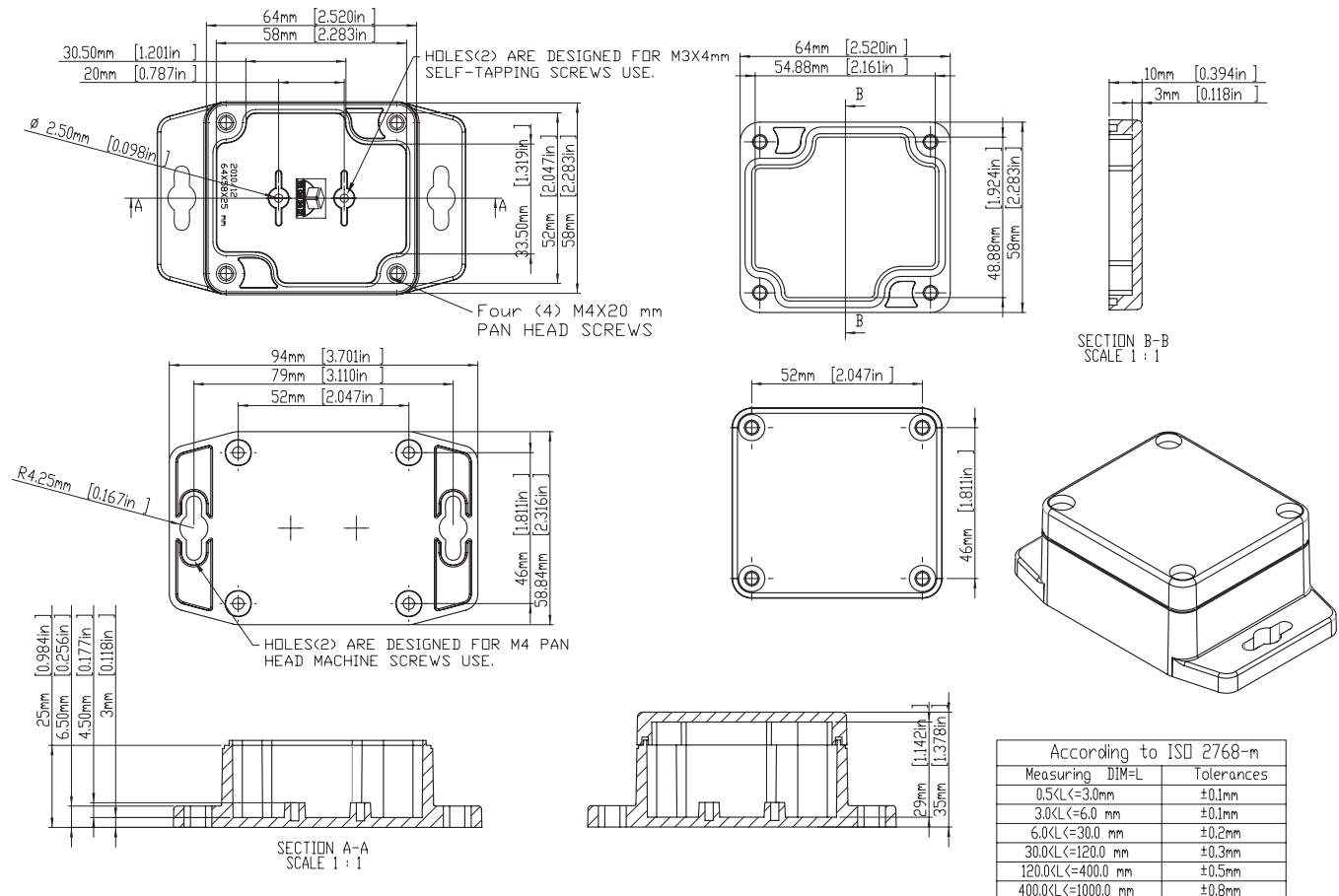
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▲ For the detail drawings of the new products, please check our website (www.gainta.com.tw).

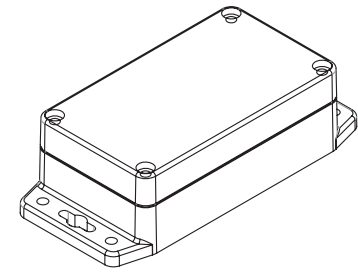
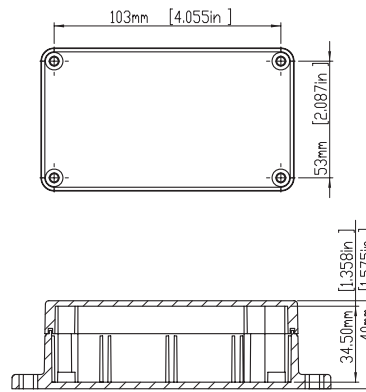
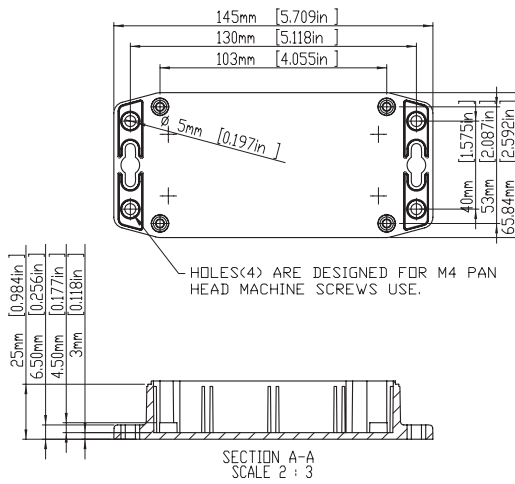
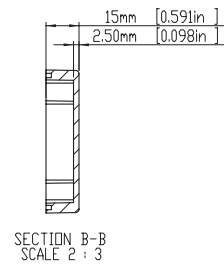
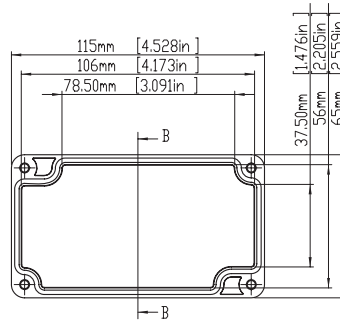
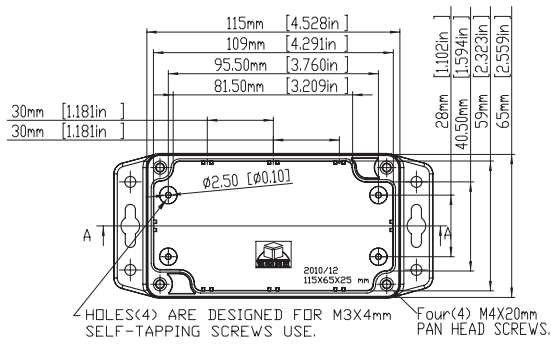
G200MF-IP67 / G200CMF-IP67 / G300MF-IP67



G201MF-IP67 / G201CMF-IP67 / G302MF-IP67

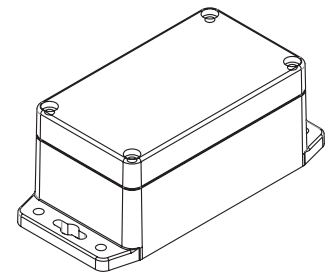
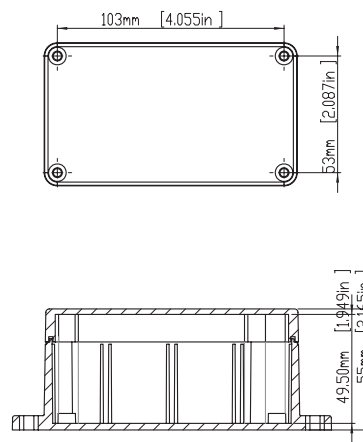
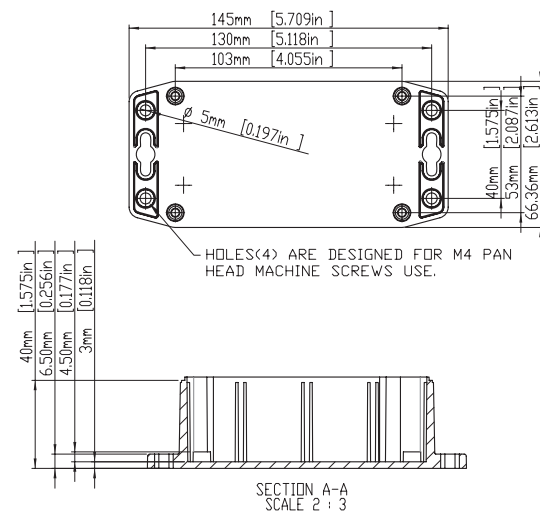
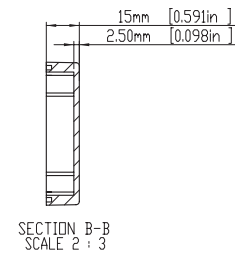
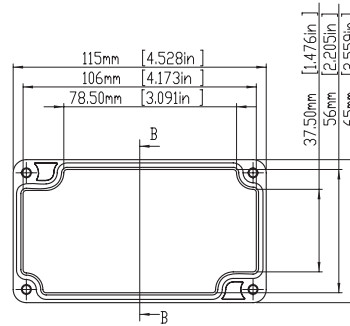
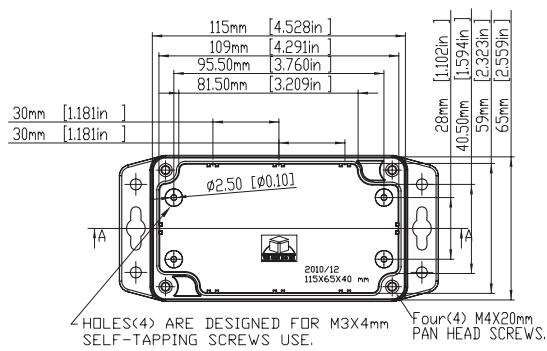


G203MF-IP67 / G203CMF-IP67 / G304MF-IP67



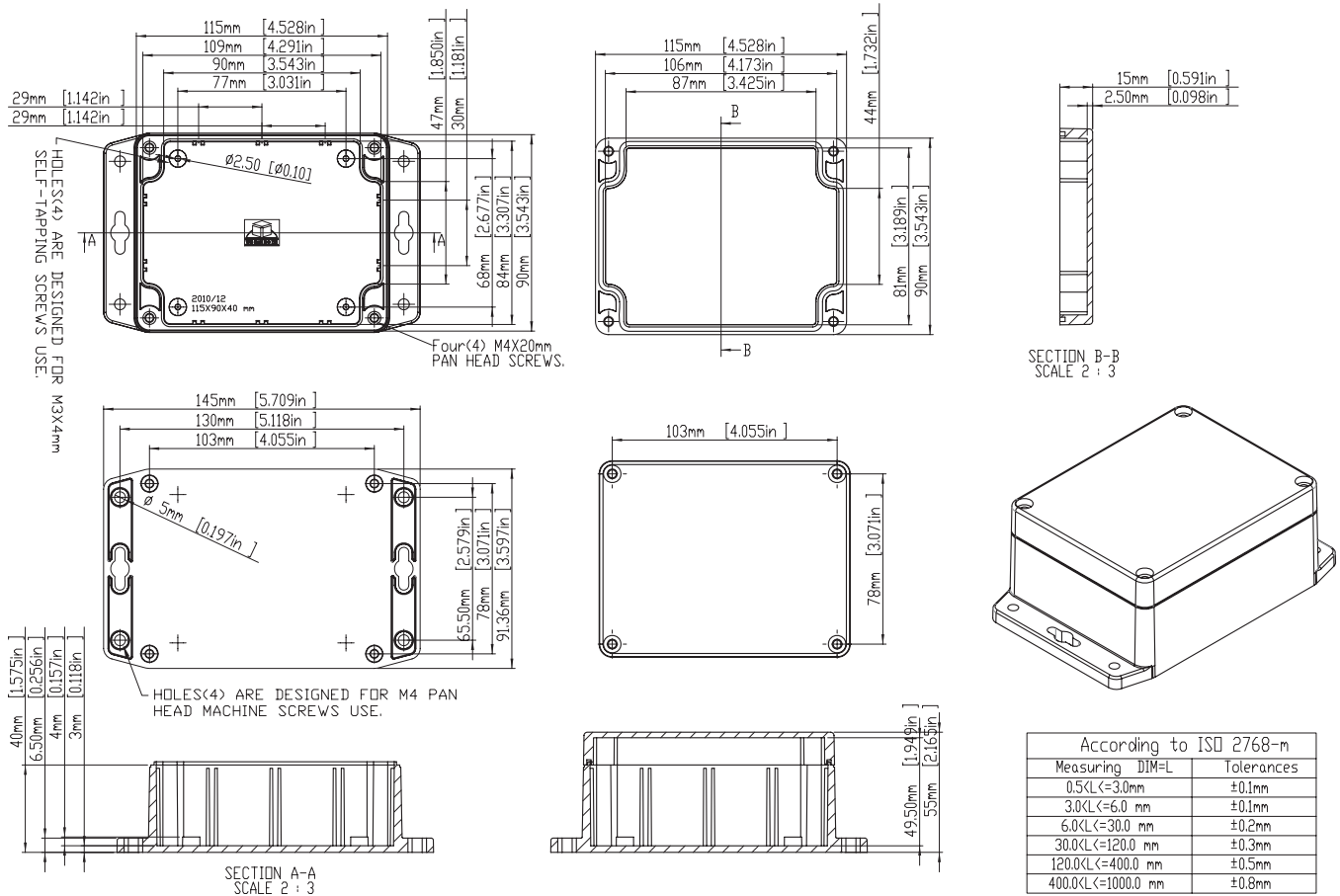
According to ISO 2768-m		
Measuring	DIM=L	Tolerances
0.5<L<=3.0mm		±0.1mm
3.0<L<=6.0 mm		±0.1mm
6.0<L<=30.0 mm		±0.2mm
30.0<L<=120.0 mm		±0.3mm
120.0<L<=400.0 mm		±0.5mm
400.0<L<=1000.0 mm		±0.8mm

G205MF-IP67 / G205CMF-IP67 / G308MF-IP67

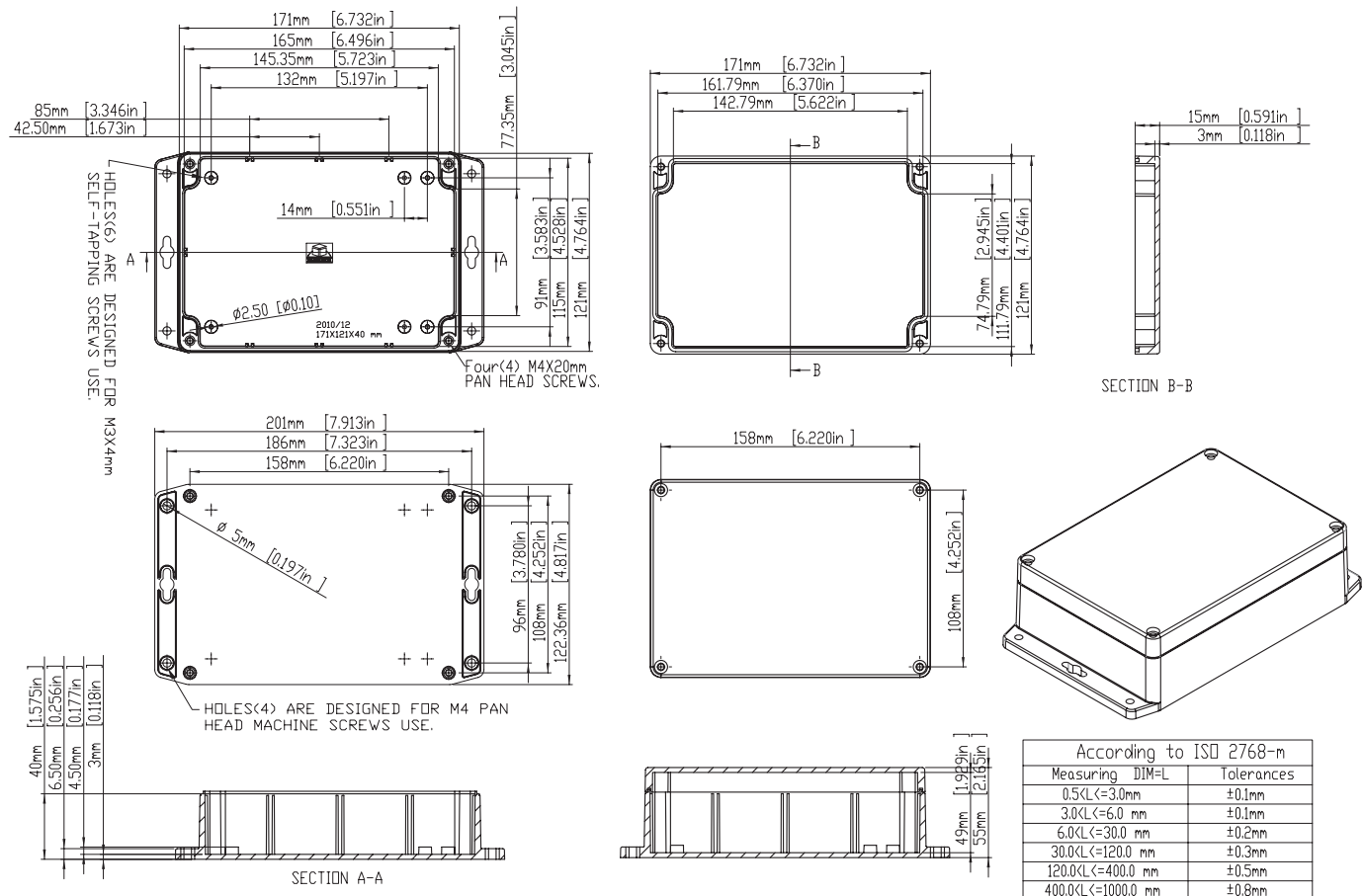


According to ISO 2768-m		
Measuring	DIM=L	Tolerances
0.5<L<=3.0mm		±0.1mm
3.0<L<=6.0 mm		±0.1mm
6.0<L<=30.0 mm		±0.2mm
30.0<L<=120.0 mm		±0.3mm
120.0<L<=400.0 mm		±0.5mm
400.0<L<=1000.0 mm		±0.8mm

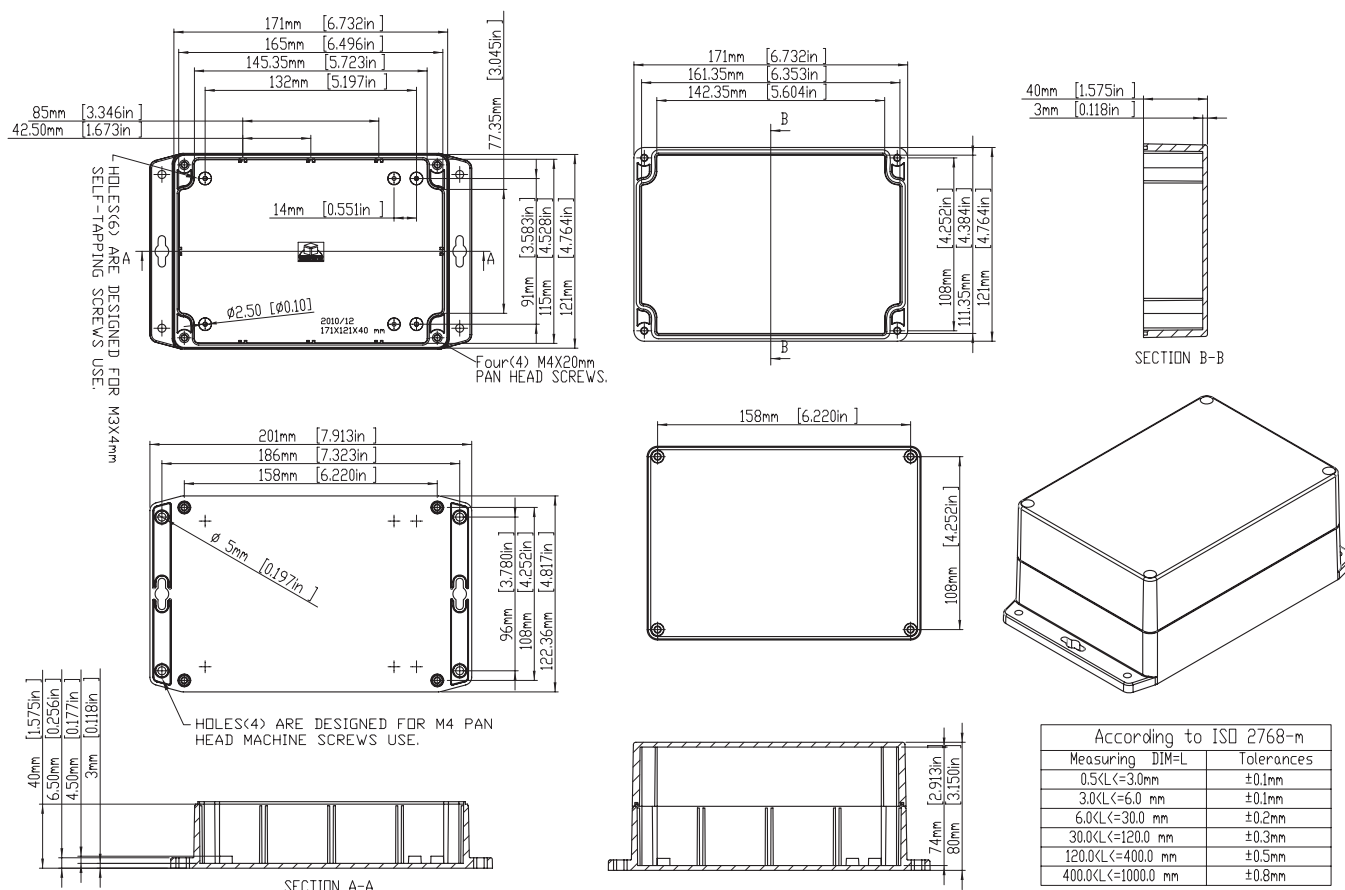
G212MF-IP67 / G212CMF-IP67 / G311MF-IP67



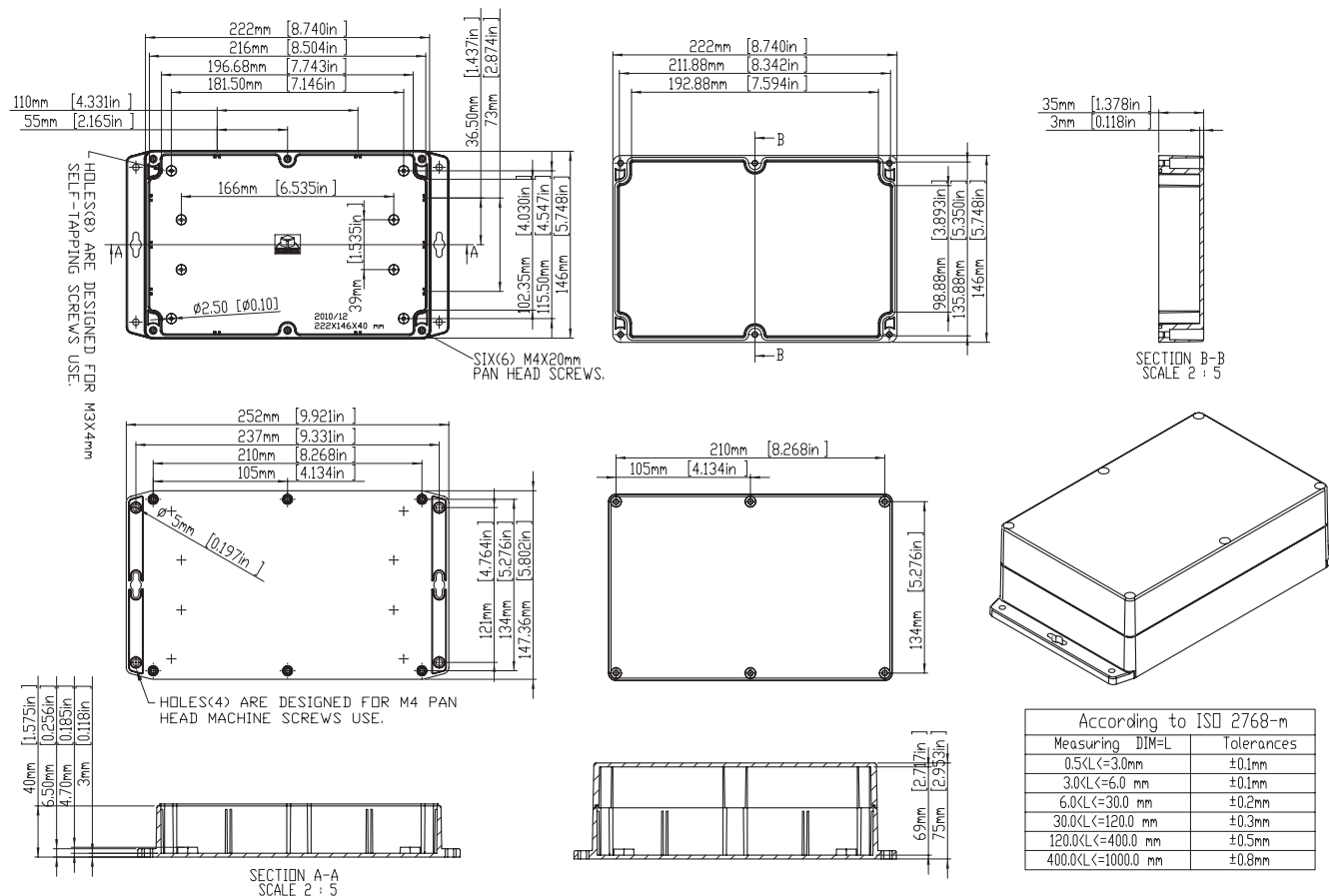
G214MF-IP67 / G214CMF-IP67 / G313MF-IP67



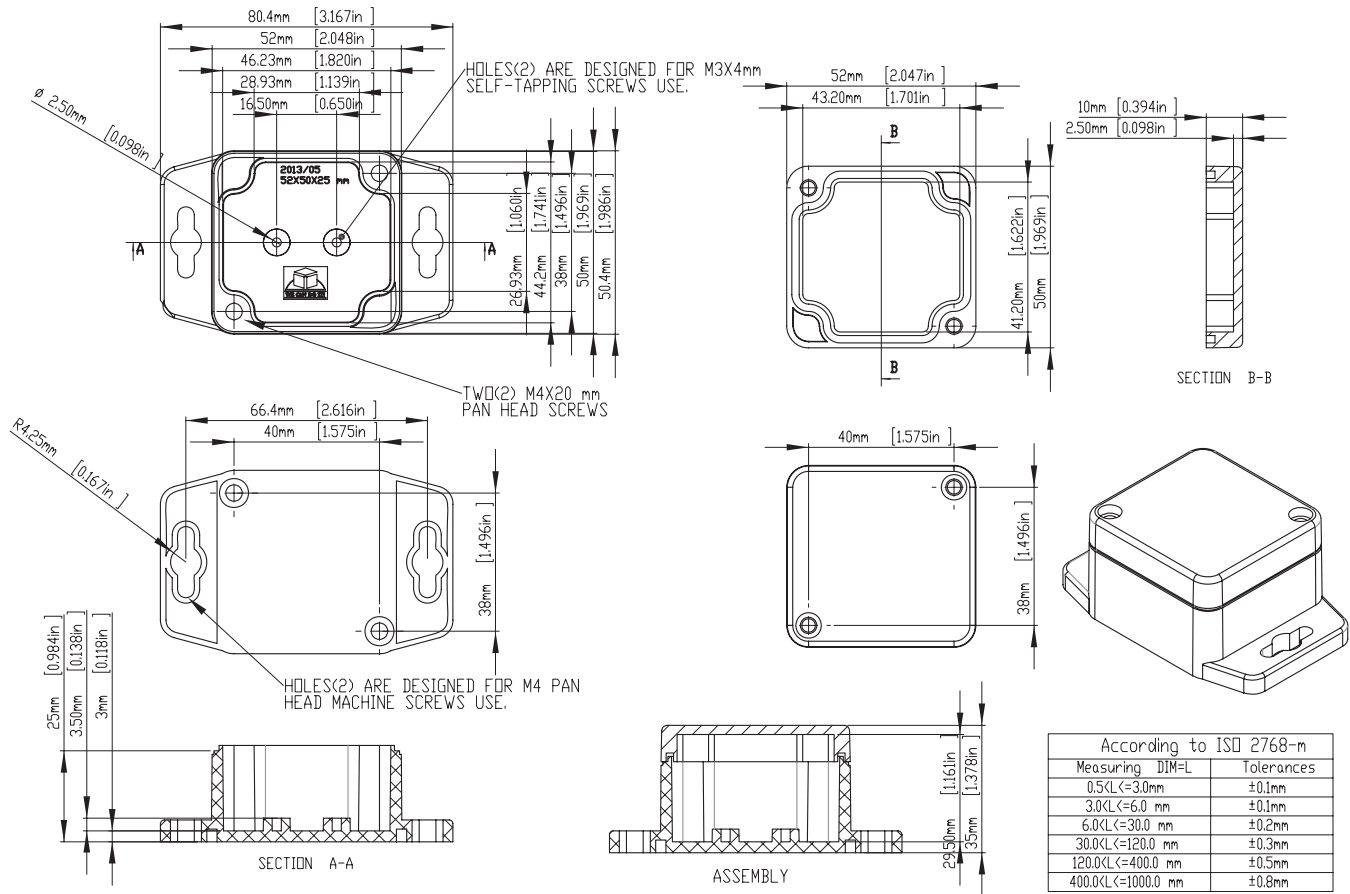
G223MF-IP67 / G223CMF-IP67 / G340MF-IP67



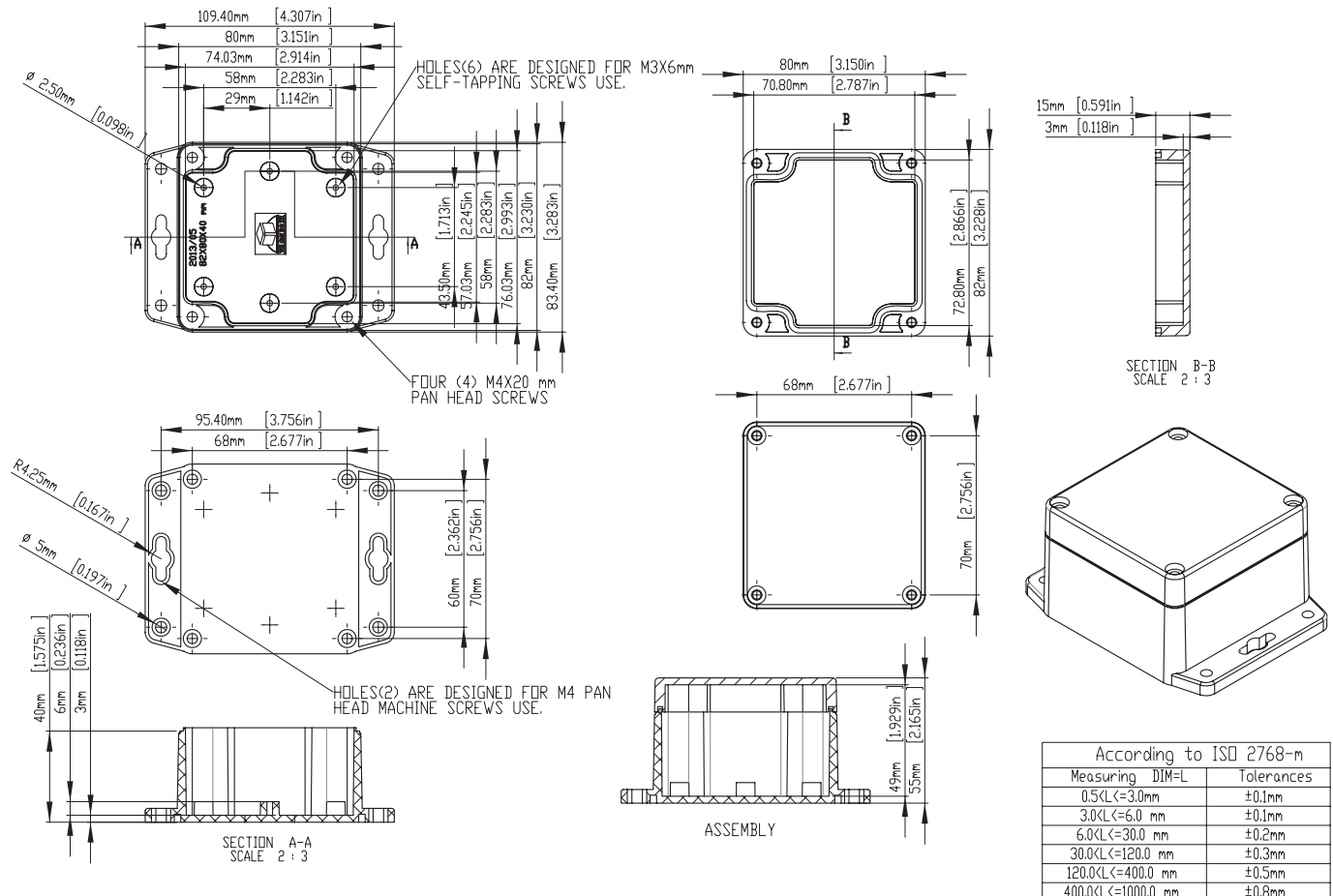
G232MF-IP67 / G232CMF-IP67 / G353MF-IP67



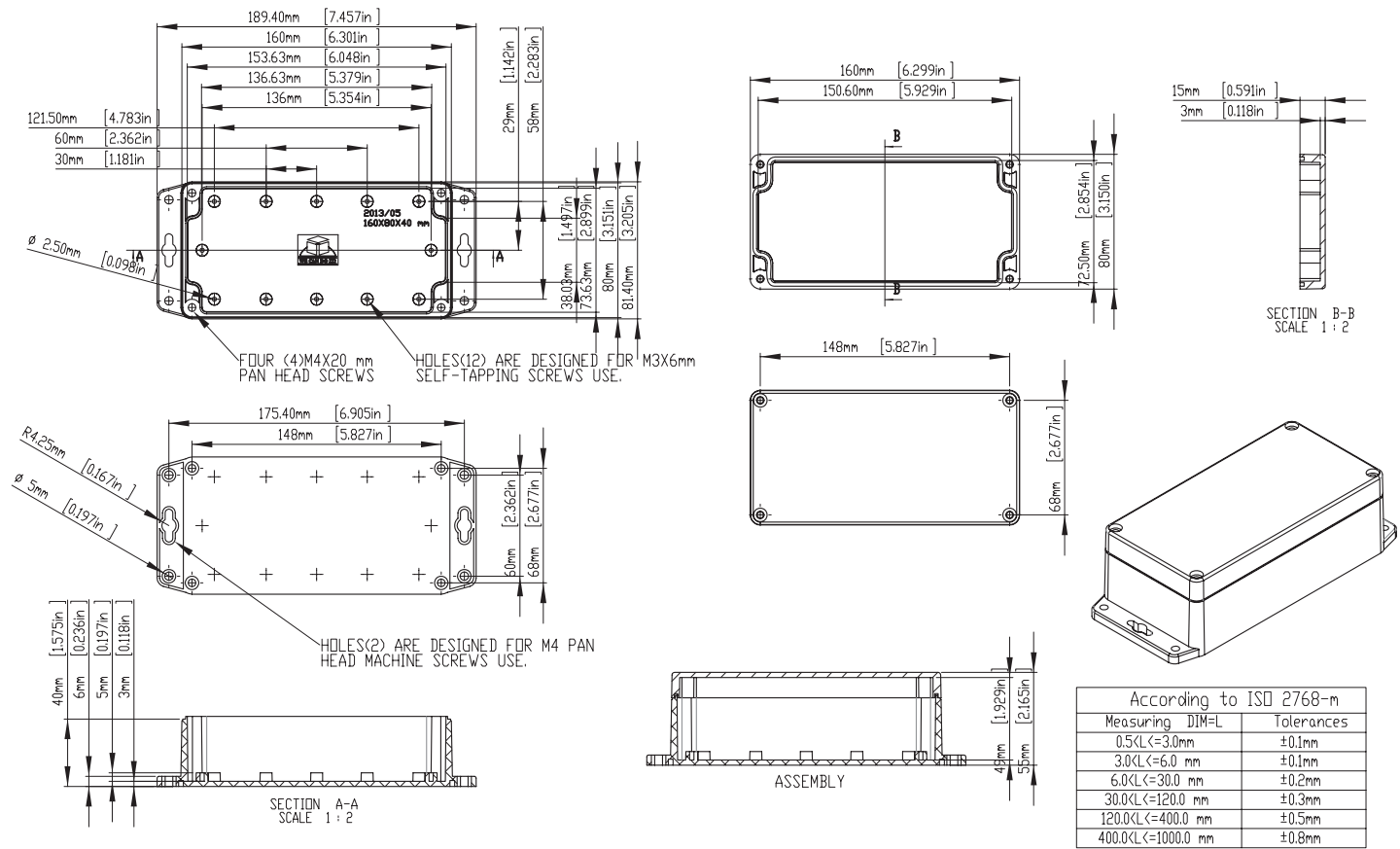
G250MF-IP67 / G250CMF-IP67 / G362MF-IP67



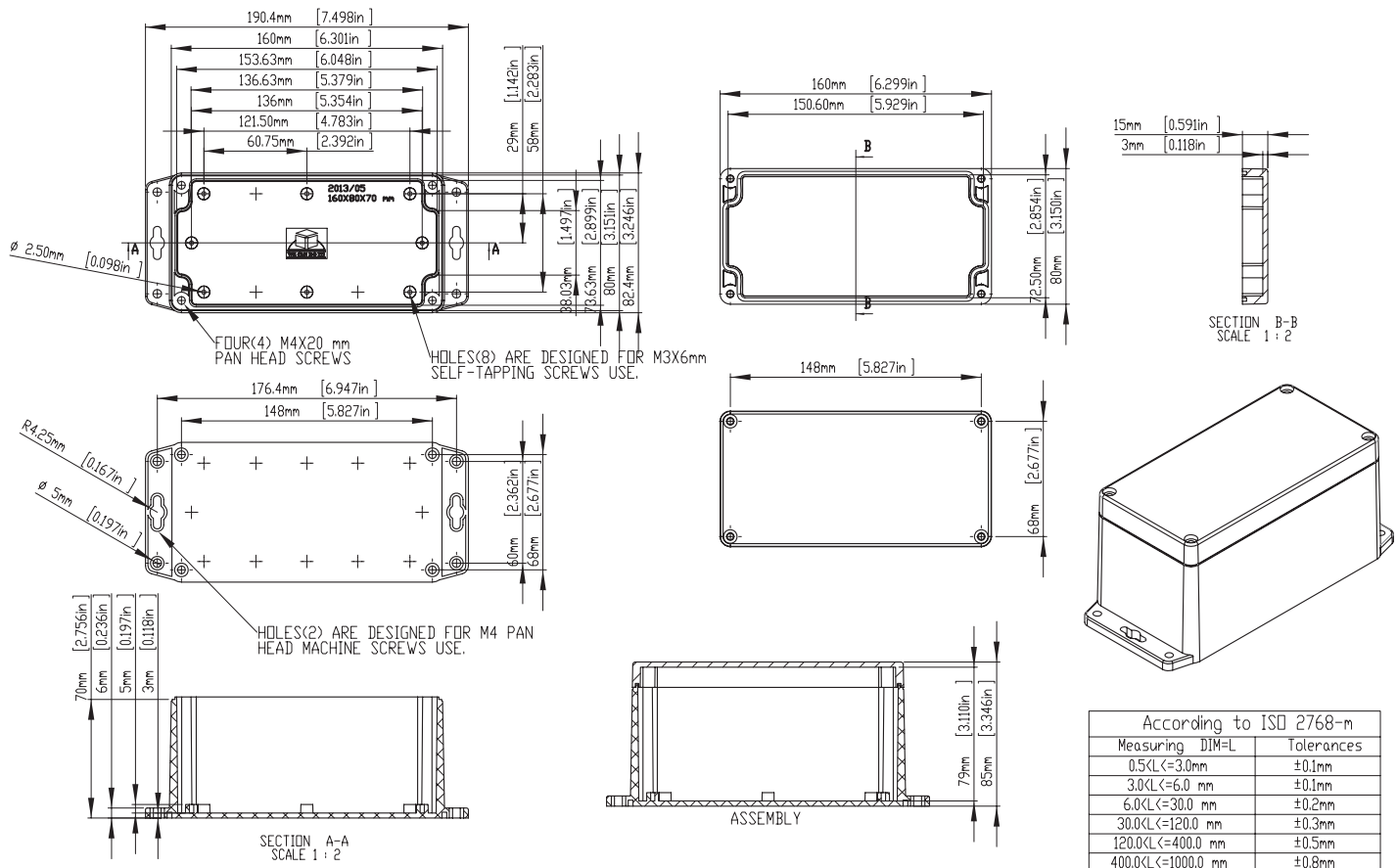
G256MF-IP67 / G256CMF-IP67 / G366MF-IP67



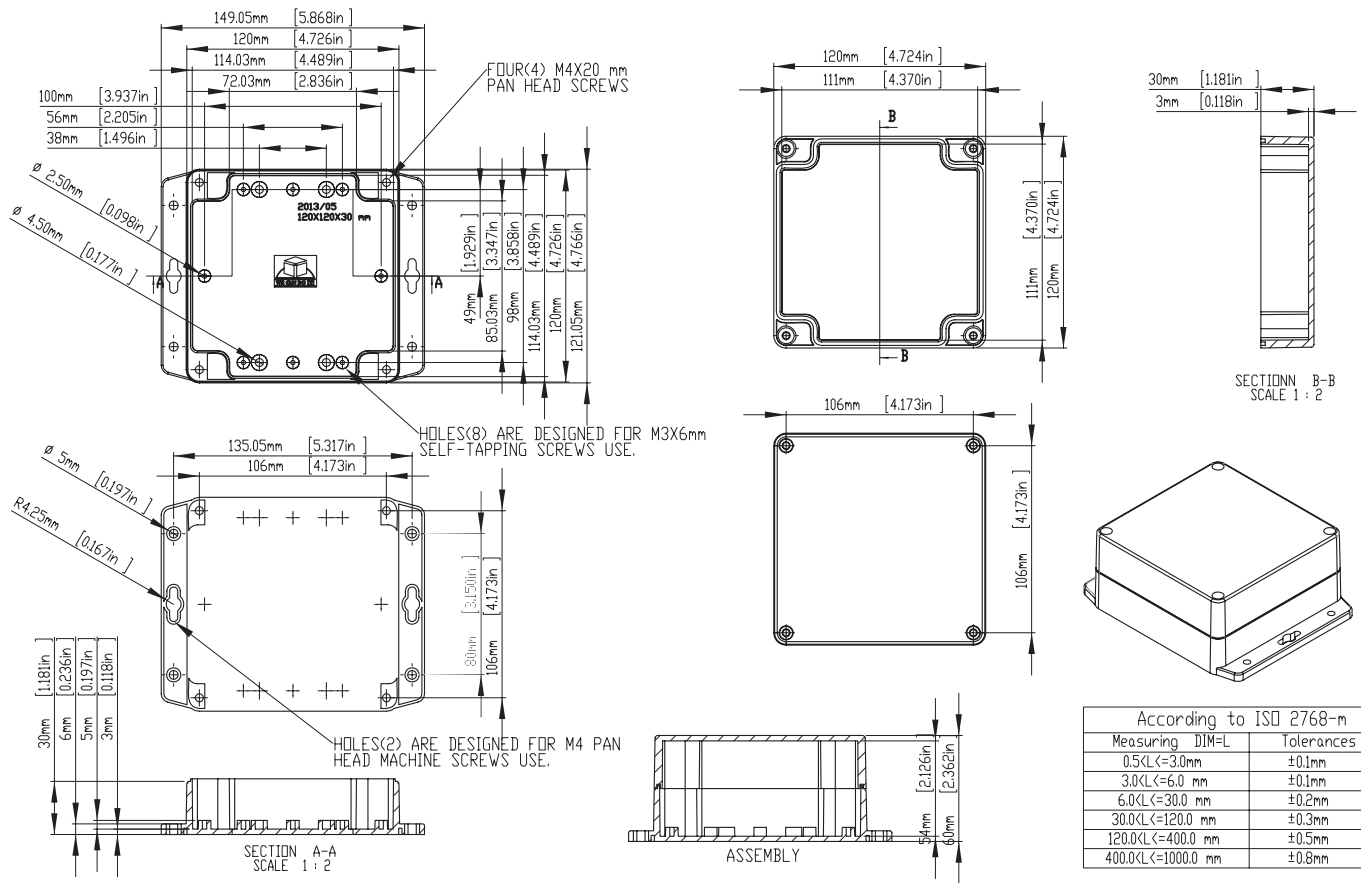
G258MF-IP67 / G258CMF-IP67 / G368MF-IP67



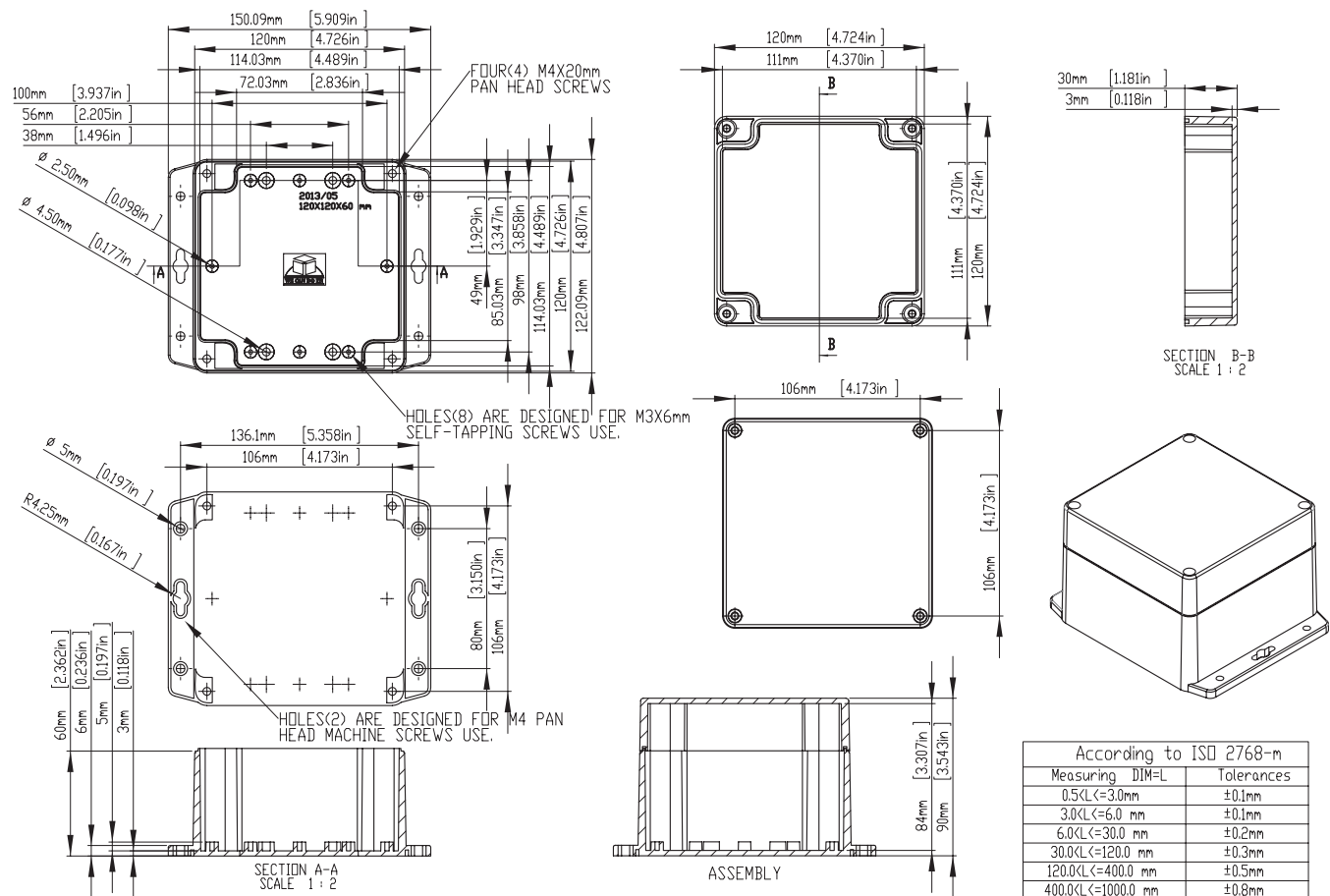
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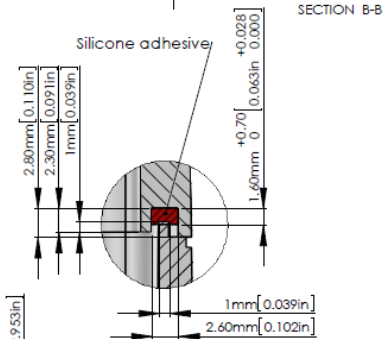


G278MF-IP67 / G278CMF-IP67 / G386MF-IP67

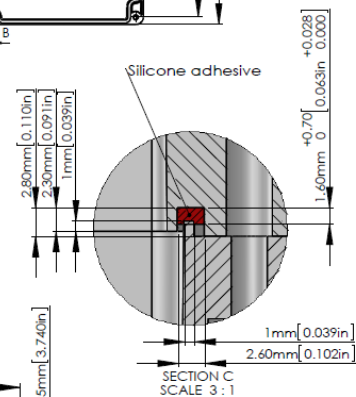


G279MF-IP67 / G279CMF-IP67 / G387MF-IP67



[illegible]

According to ISO 2768-m	
Measuring DIM=L	Tolerances
0.5<L≤3.0mm	±0.1mm
3.0<L≤6.0 mm	±0.1mm
6.0<L≤30.0 mm	±0.2mm
30.0<L≤120.0 mm	±0.3mm
120.0<L≤400.0 mm	±0.5mm
400.0<L≤1000.0 mm	±0.8mm

[illegible]

According to ISO 2768-m	
Measuring DIM=L	Tolerances
$0.5 < L \leq 3.0 \text{ mm}$	$\pm 0.1 \text{ mm}$
$3.0 < L \leq 6.0 \text{ mm}$	$\pm 0.1 \text{ mm}$
$6.0 < L \leq 30.0 \text{ mm}$	$\pm 0.2 \text{ mm}$
$30.0 < L \leq 120.0 \text{ mm}$	$\pm 0.3 \text{ mm}$
$120.0 < L \leq 400.0 \text{ mm}$	$\pm 0.5 \text{ mm}$
$400.0 < L \leq 1000.0 \text{ mm}$	$\pm 0.8 \text{ mm}$

ETC
Page 1 of 18 Pages
Issue Date : Oct. 27, 2019

TEST REPORT

Rep. No. : 19-10-RBD-002

Applicant : Ganta Industries Ltd.

Address : 1F, NO.30, LANE 54, CHUNG CHENG RD.,
XINDIAN DIST., NEW TAIPEI CITY 231, TAIWAN
(R.O.C.)

Commodity : Sealed Plastic Box

Model : G214-IP67 - G214C-IP67 - G20563C-IP67

Serial Model : See below Annex A

Quantity : 4 sets

Date of Receipt : Oct. 07, 2019

Date of Testing : Oct. 21, 2019

Test specification : IEC 60529 : 2015

Ambient Environment : Temp: 28 °C, 54% R.H., A.P. 993 mbar

Test item : IP68

Test condition & result : See the following sheets

General remarks :
The laboratory will make conformity judgments based on the above test criteria, and the decision rules of compliance do not consider the uncertainty.
The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

Approved by : Sky Kao
Sky Kao

ETC
Page 2 of 18 Pages
Issue Date : Oct. 27, 2019

TEST REPORT

Int. Ser. No. : 19-10-RBD-002

Page 2 of 18 Pages

1. Test Item : IP68

1.1 Test model: G214-IP67 - G214C-IP67 - G20563C-IP67

2. Test Conditions :

2.1 Ambient Condition
- Temperature range: 15 °C to 35 °C.
- Relative humidity: 25 % to 95 %.
- Air pressure: 960 mbar to 1060 mbar.

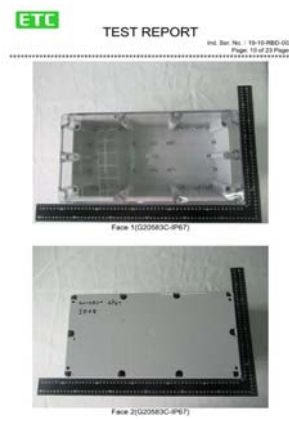
2.2 IP6X (in accordance with IEC 60529 13.4 test)
- Dust: Talcum powder.
- The amount of dust: 2 kg/m³.
- Maximum depression of 2kPa (20mbar).
- The duration of the test is 8 h.

2.3 IPX8 (in accordance with IEC 60529 14.2.714.2.8 test)
- The lowest point of enclosures with a height less than 850 mm is located 1000 mm below the surface of the water.
- The highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water.
- The duration of the test is 60 min.
- The water temperature does not differ from that of the equipment by more than 5 K.

3. Test Result :

IP Code	Results	Acceptance Criteria
IP6X	There is no trace of dust inside.	IEC 60529 13.6
IPX8	There is no trace of water inside.	IEC 60529 14.3

Tested by : Sam Wei
Sam Wei



ETC
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Issue Date : Oct. 27, 2019

TEST REPORT

Rep. No. : 19-10-RBD-003

Applicant : Ganta Industries Ltd.

Address : 1F, NO.30, LANE 54, CHUNG CHENG RD.,
XINDIAN DIST., NEW TAIPEI CITY 231, TAIWAN
(R.O.C.)

Commodity : Sealed Plastic Box

Model : G313-IP67 - G30393-IP67

Serial Model : See below Annex A

Quantity : 4 sets

Date of Receipt : Oct. 07, 2019

Date of Testing : Oct. 22, 2019

Test specification : IEC 60529 : 2015

Ambient Environment : Temp: 29 °C, 52% R.H., A.P. 995 mbar

Test item : IP68

Test condition & result : See the following sheets

General remarks :
The laboratory will make conformity judgments based on the above test criteria, and the decision rules of compliance do not consider the uncertainty.
The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

Approved by : Sky Kao
Sky Kao

ETC
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Issue Date : Oct. 27, 2019

TEST REPORT

Int. Ser. No. : 19-10-RBD-003

Page 8 of 18 Pages

1. Test Item : IP68

1.1 Test model: G313-IP67 - G30393-IP67

2. Test Conditions :

2.1 Ambient Condition
- Temperature range: 15 °C to 35 °C.
- Relative humidity: 25 % to 95 %.
- Air pressure: 960 mbar to 1060 mbar.

2.2 IP6X (in accordance with IEC 60529 13.4 test)
- Dust: Talcum powder.
- The amount of dust: 2 kg/m³.
- Maximum depression of 2kPa (20mbar).
- The duration of the test is 8 h.

2.3 IPX8 (in accordance with IEC 60529 14.2.714.2.8 test)
- The lowest point of enclosures with a height less than 850 mm is located 1000 mm below the surface of the water.
- The highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water.
- The duration of the test is 60 min.
- The water temperature does not differ from that of the equipment by more than 5 K.

3. Test Result :

IP Code	Results	Acceptance Criteria
IP6X	There is no trace of dust inside.	IEC 60529 13.6
IPX8	There is no trace of water inside.	IEC 60529 14.3

Tested by : Sam Wei
Sam Wei



Gainta Industries Ltd.

1F., No. 28, Lane 54, Chung Cheng Road, Hsin Tien District, New Taipei City, Taiwan

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