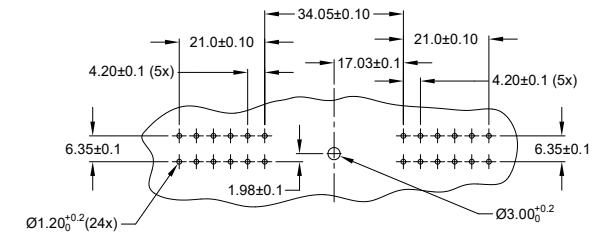
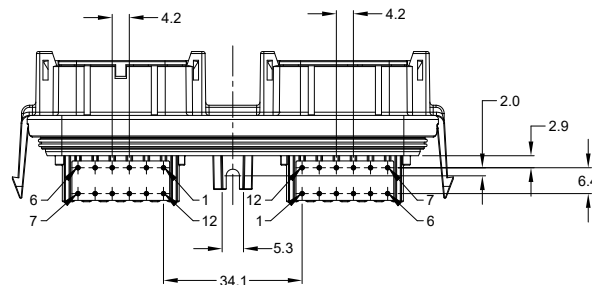
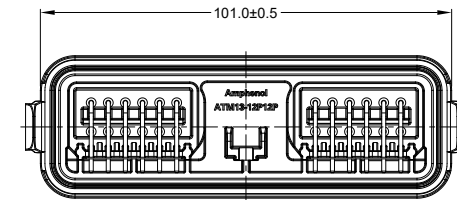
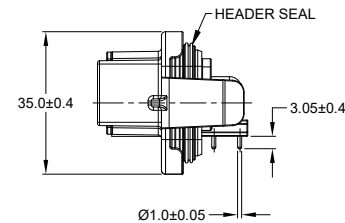
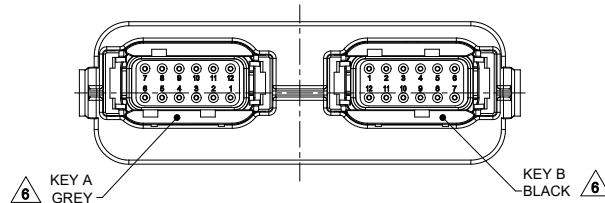
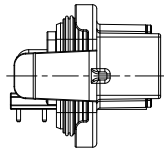
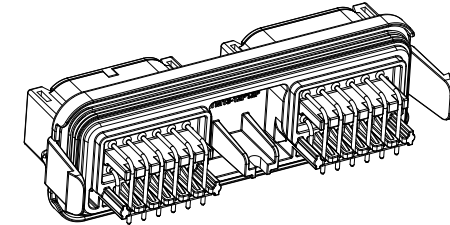
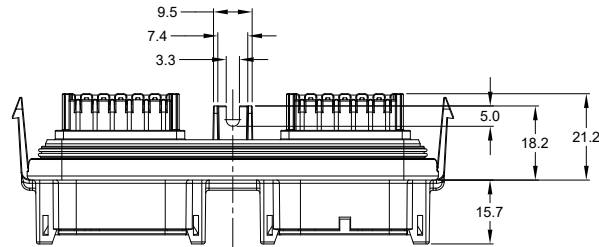


| REVISIONS |     |                           |         |        |       |
|-----------|-----|---------------------------|---------|--------|-------|
| REV       | ECO | DESCRIPTION               | DATE    | BY     | APPR  |
| A1        | -   | RELEASE NEW DRAWING       | 06NOV18 | SULLEN | TOMMY |
| A2        | -   | UPDATED DRAWING           | 18FEB19 | SULLEN | TOMMY |
| A3        | -   | ADD SPACE LIMIT DIMENSION | 15JAN20 | SULLEN | TOMMY |



RECOMMENDED PCB LAYOUT  
VIEW FROM COMPONENTS  
SIDE OF PCB

NOTES: UNLESS OTHERWISE SPECIFIED

- MATERIAL:  
HOUSING: THERMOPLASTIC, BLACK  
SEAL: SILICONE RUBBER  
CONTACT: COPPER ALLOY
- MODIFICATIONS: RA PCB MOUNT
- SPECIFICATIONS:  
3.1 CURRENT RATING: 7.5 AMPS  
3.2 OPERATING TEMPERATURE: -55°C TO +125°C  
3.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2 MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC  
3.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C  
3.5 MOISTURE RESISTANCE: IP69K ( MATED CONDITION )  
3.6 MATING CYCLE DURABILITY: 100 CYCLES  
3.7 RoHS COMPLIANT
- MATING PART: ATM06-12SX-\*  
( X = A,B,C,D KEYS ; \* = ALL MODIFICATIONS)
- THIS RECEPTACLE IS USED WITH AIPXE-325X4A-XXXX AND AIPXE-325X4B-XXXX ENCLOSURE (XXXX= ALL MODIFICATIONS)

6. SEE SHEET 2 AND 3 FOR OTHER KEY ARRANGEMENTS AND COLORS

7. MAXIMUM COMPONENT HEIGHT DEPENDS ON LOCATION DUE TO PART DRAFT AND RIBS. (SEE SHEET 4)

8. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY

| SEE SHEET 2 & 3   |             | DESCRIPTION  |       | ITEM  |
|---|-------------|--|-------|---|
| QUANTITY  | PART NUMBER | MATERIALS LIST   |       |   |
| UNLESS OTHERWISE SPECIFIED<br>1) All dimensions are in metric (mm).<br>2) Tolerances are as follows:<br>1 PL DEC ±0.30<br>2 PL DEC ±0.15<br>3 PL DEC ±0.08<br>3) Note reference = |             | SIGNATURES   | DATE  | <h1>Amphenol</h1> <p>Sine Systems - www.amphenol-sine.com<br/>44724 Morley Drive<br/>Clinton Township, MI 48036</p> <p>ARMOR IPX RECEPTACLE ATM HEADER,<br/>2 x 12 POSITIONS, SIZE 20 CONTACT</p> |
| DRAWN: SULLEN,ZHANG   |             | 15JAN20  |       |   |
| CHECKED: ORION,LI   |             | 16JAN20  |       |   |
| ENGINEER:   |             |  |       |   |
| APPROVAL: TOMMY,XIE   |             | 17JAN20  |       |   |
| MATERIAL SPECIFICATIONS:  |             | CUSTOMER:  |       |   |
| PROCESS SPECIFICATIONS:   |             | THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. |       |   |
| NEXT ASSY:  |             | SIZE   | TYPE  | DWG NO.   |
|   |             | B  | C-    | ATM13-12PX-12PX-BMXX  |
|   |             | SCALE:   | NONE  | REVISION  |
|   |             |  |       | A3  |
|   |             |  | SHEET | 1 OF 4  |

TITLE: ARMOR IPX RECEPTACLE ATM HDR, 2x12 POSITIONS, SIZE 20 CONTACT

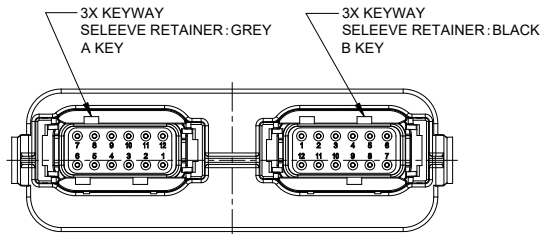
DWG NO: ATM13-12PX-12PX-BMXX

REV: A3

SH: 1

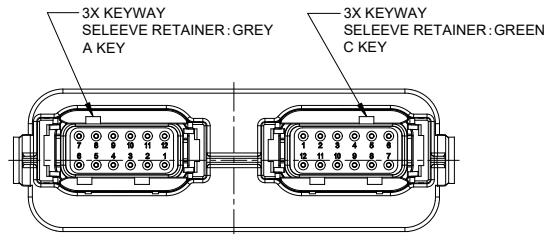
OF: 4

| REVISIONS |     |                           |         |        |       |
|-----------|-----|---------------------------|---------|--------|-------|
| REV       | ECO | DESCRIPTION               | DATE    | BY     | APPR  |
| A1        | -   | RELEASE NEW DRAWING       | 06NOV18 | SULLEN | TOMMY |
| A2        | -   | UPDATED DRAWING           | 18FEB19 | SULLEN | TOMMY |
| A3        | -   | ADD SPACE LIMIT DIMENSION | 15JAN20 | SULLEN | TOMMY |



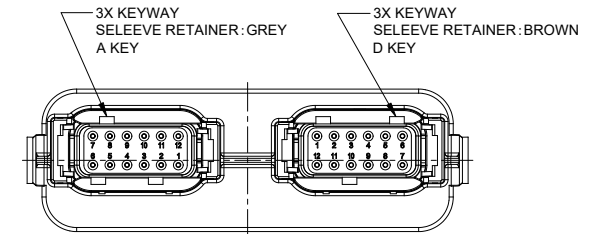
**KEY AB**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PA-12PB-BM01 | DTM13-12PA-12PB-GR01 |
| TIN             | ATM13-12PA-12PB-BM03 | DTM13-12PA-12PB-R008 |



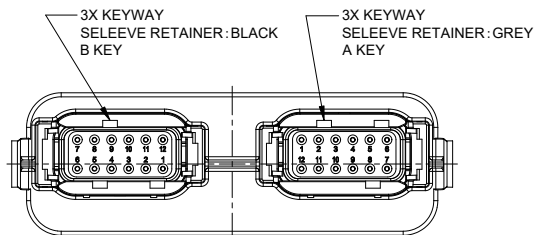
**KEY AC**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PA-12PC-BM01 | DTM13-12PA-12PC-GR01 |
| TIN             | ATM13-12PA-12PC-BM03 | DTM13-12PA-12PC-R008 |



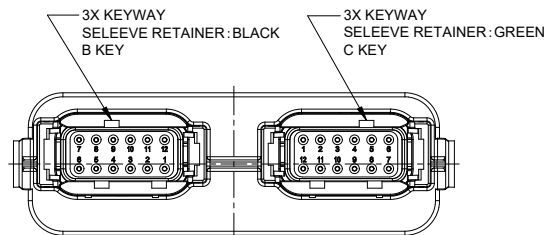
**KEY AD**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PA-12PD-BM01 | DTM13-12PA-12PD-GR01 |
| TIN             | ATM13-12PA-12PD-BM03 | DTM13-12PA-12PD-R008 |



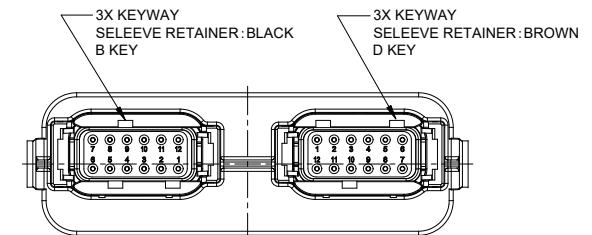
**KEY BA**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PB-12PA-BM01 | DTM13-12PB-12PA-GR01 |
| TIN             | ATM13-12PB-12PA-BM03 | DTM13-12PB-12PA-R008 |



**KEY BC**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PB-12PC-BM01 | DTM13-12PB-12PC-GR01 |
| TIN             | ATM13-12PB-12PC-BM03 | DTM13-12PB-12PC-R008 |



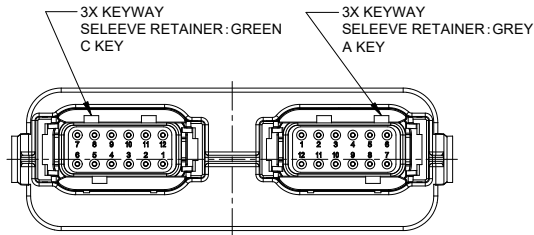
**KEY BD**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PB-12PD-BM01 | DTM13-12PB-12PD-GR01 |
| TIN             | ATM13-12PB-12PD-BM03 | DTM13-12PB-12PD-R008 |

|  |             |  |  |   |
|--|-------------|--|--|---|
| ATM13-12PX-12PX-BMXX   |             | DESCRIPTION  |  | ITEM  |
| QUANTITY   | PART NUMBER | MATERIALS LIST   |  |   |
| UNLESS OTHERWISE SPECIFIED<br>1) All dimensions are in metric(mm).<br>2) Tolerances are as follows:<br>1 PL DEC ±0.30<br>2 PL DEC ±0.15<br>3 PL DEC ±0.08<br>Fractions ±1/64<br>Angles ±1° |             | SIGNATURES   |  | DATE  |
| DRAWN: SULLEN,ZHANG  |             | 15JAN20  |  | <h1>Amphenol</h1> <p>Sine Systems - www.amphenol-sine.com<br/>44724 Morley Drive<br/>Clinton Township, MI 48036</p> |
| CHECKED: ORIONLI   |             | 16JAN20  |  |   |
| ENGINEER:  |             |  |  |   |
| APPROVAL: TOMMY,XIE  |             | 17JAN20  |  |   |
| MATERIAL SPECIFICATIONS:   |             | CUSTOMER:  |  | ARMOR IPX RECEPTACLE ATM HEADER,<br>2 x 12 POSITIONS, SIZE 20 CONTACT   |
| PROCESS SPECIFICATIONS:  |             | THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. |  | SCALE: NONE   |
| NEXT ASSY:   |             | B C- ATM13-12PX-12PX-BMXX  |  | REVISION A3   |
|  |             | SHEET 2 OF 4   |  |   |

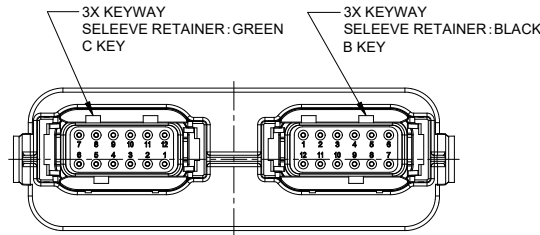
TITLE: ARMOR IPX RECEPTACLE ATM HDR, 2x 12 POSITIONS, SIZE 20 CONTACT  
DWG NO: ATM13-12PX-12PX-BMXX  
REV: A3  
SH: 2  
OF: 4

| REVISIONS |     |                           |         |        |       |
|-----------|-----|---------------------------|---------|--------|-------|
| REV       | ECO | DESCRIPTION               | DATE    | BY     | APPR  |
| A1        | -   | RELEASE NEW DRAWING       | 06NOV18 | SULLEN | TOMMY |
| A2        | -   | UPDATED DRAWING           | 18FEB19 | SULLEN | TOMMY |
| A3        | -   | ADD SPACE LIMIT DIMENSION | 15JAN20 | SULLEN | TOMMY |



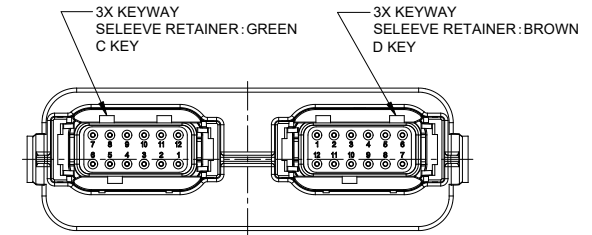
**KEY CA**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PC-12PA-BM01 | DTM13-12PC-12PA-GR01 |
| TIN             | ATM13-12PC-12PA-BM03 | DTM13-12PC-12PA-R008 |



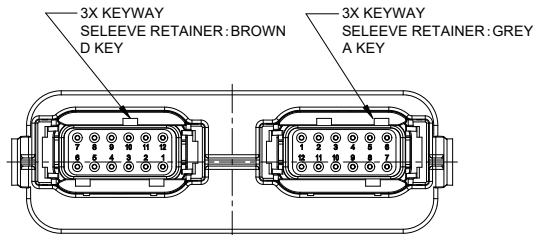
**KEY CB**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PC-12PB-BM01 | DTM13-12PC-12PB-GR01 |
| TIN             | ATM13-12PC-12PB-BM03 | DTM13-12PC-12PB-R008 |



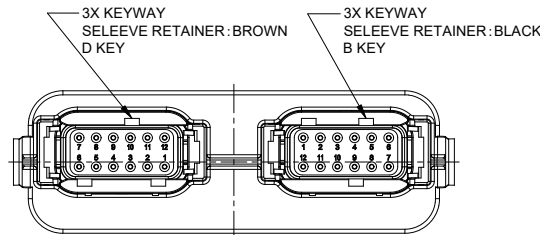
**KEY CD**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PC-12PD-BM01 | DTM13-12PC-12PD-GR01 |
| TIN             | ATM13-12PC-12PD-BM03 | DTM13-12PC-12PD-R008 |



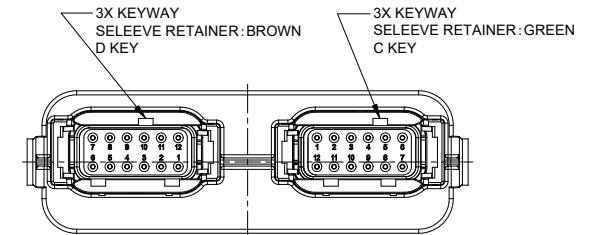
**KEY DA**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PD-12PA-BM01 | DTM13-12PD-12PA-GR01 |
| TIN             | ATM13-12PD-12PA-BM03 | DTM13-12PD-12PA-R008 |



**KEY DB**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PD-12PB-BM01 | DTM13-12PD-12PB-GR01 |
| TIN             | ATM13-12PD-12PB-BM03 | DTM13-12PD-12PB-R008 |



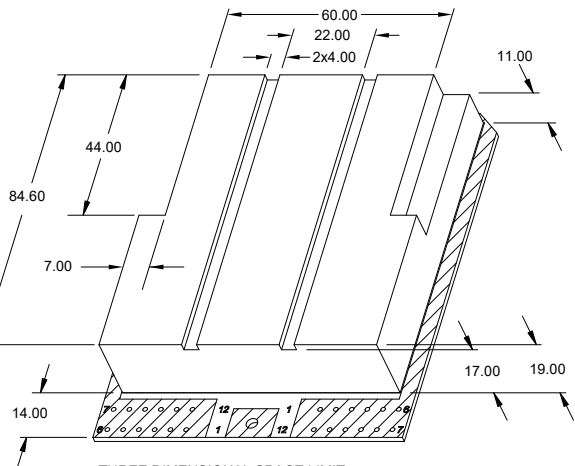
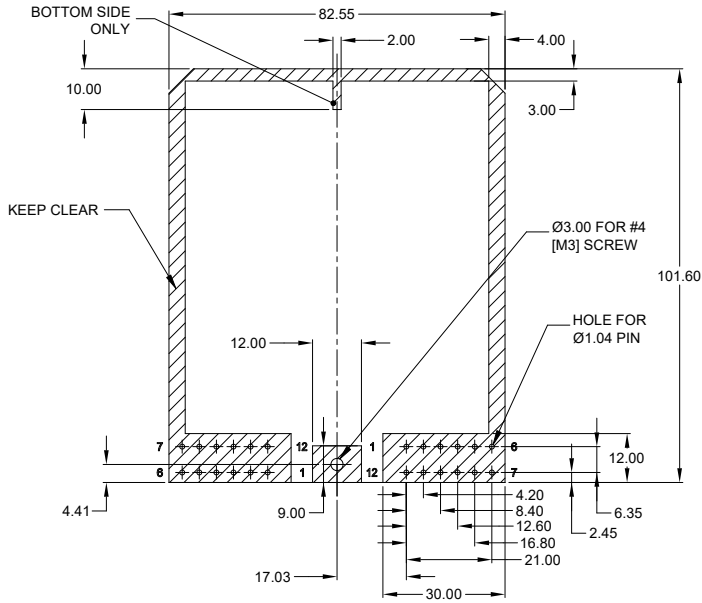
**KEY DC**

| CONTACT PLATING | PART NUMBER          | REFERENCE            |
|-----------------|----------------------|----------------------|
| GOLD            | ATM13-12PD-12PC-BM01 | DTM13-12PD-12PC-GR01 |
| TIN             | ATM13-12PD-12PC-BM03 | DTM13-12PD-12PC-R008 |

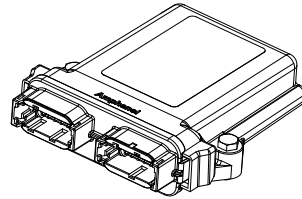
|   |                |  |  |              |
|---|----------------|--|--|--------------|
| ATM13-12PX-12PX-BMXX  |                | DESCRIPTION  |  | ITEM         |
| PART NUMBER   |                | DESCRIPTION  |  |              |
| QUANTITY  | MATERIALS LIST |  |  |              |
| <b>UNLESS OTHERWISE SPECIFIED</b><br>1) All dimensions are in metric(mm).<br>2) Tolerances are as follows:<br>1 PL DEC ±0.30<br>2 PL DEC ±0.15<br>3 PL DEC ±0.08<br>Fractions ±1/64<br>Angles ±1° |                |  |  |              |
| SIGNATURES  |                | DATE   |  |              |
| DRAWN: SULENZHANG   |                | 15JAN20  |  |              |
| CHECKED: ORIONLI  |                | 16JAN20  |  |              |
| ENGINEER:   |                |  |  |              |
| APPROVAL: TOMMYXIE  |                | 17JAN20  |  |              |
| CUSTOMER:   |                |  |  |              |
| MATERIAL SPECIFICATIONS:  |                | THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. |  |              |
| PROCESS SPECIFICATIONS:   |                |  |  |              |
| NEXT ASSY:  |                |  |  |              |
| SCALE: NONE   |                | SIZE: B C-   |  | REVISION: A3 |
|   |                | TYPE: ATM13-12PX-12PX-BMXX   |  |              |
|   |                | DWG NO: ATM13-12PX-12PX-BMXX   |  |              |
|   |                | SHEET 3 OF 4   |  |              |

TITLE: ARMOR IPX RECEPTACLE ATM HDR, 2x 12 POSITIONS, SIZE 20 CONTACT  
 DWG NO: ATM13-12PX-12PX-BMXX  
 REV: A3  
 SH: 3  
 OF: 4

CIRCUIT BOARD HOLE LOCATIONS  
AND KEEP CLEAR AREAS FOR  
ATM13-12PX-12PX-BM01  
ATM13-12PX-12PX-BM03  
ALL DIMENSIONS REFERENCE  
TOP VIEW

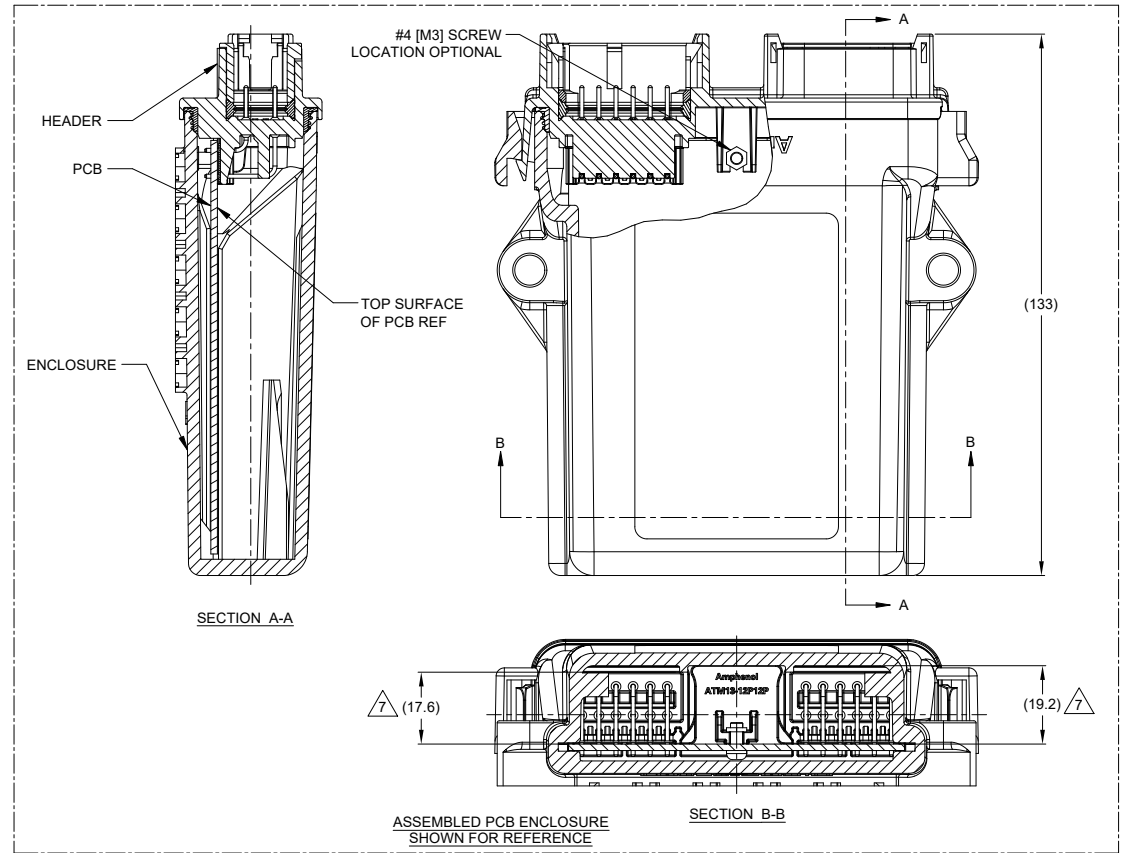


THREE DIMENSIONAL SPACE LIMIT  
APPROXIMATE INTERNAL SPACE  
FOR COMPONENT SPACE LAYOUT  
MAX. COMPONENT HEIGHT UNDER BOARD 2.00 mm.



3D VIEW  
AIPXE-325X4A-XXXX AND  
AIPXE-325X4B-XXXX ENCLOSURE AND  
MOUNTING HARDWARE SHOWN FOR REFERENCE

| REVISIONS |     |                           |         |        |       |
|-----------|-----|---------------------------|---------|--------|-------|
| REV       | ECO | DESCRIPTION               | DATE    | BY     | APPR  |
| A1        | -   | RELEASE NEW DRAWING       | 06NOV18 | SULLEN | TOMMY |
| A2        | -   | UPDATE DRAWING            | 18FEB19 | SULLEN | TOMMY |
| A3        | -   | ADD SPACE LIMIT DIMENSION | 15JAN20 | SULLEN | TOMMY |



| SEE SHEET 2 & 3                       |             | DESCRIPTION  |         | ITEM     |
|---------------------------------------|-------------|--|---------|----------|
| QUANTITY                              | PART NUMBER | MATERIALS LIST   |         |          |
| UNLESS OTHERWISE SPECIFIED            |             |  |         |          |
| 1) All dimensions are in metric (mm). |             |  |         |          |
| 2) Tolerances are as follows:         |             |  |         |          |
| 1 PL DEC ±0.30 Fractions ±1/64        |             |  |         |          |
| 2 PL DEC ±0.15 Angles ±1°             |             |  |         |          |
| 3 PL DEC ±0.08                        |             |  |         |          |
| 3) Note reference =                   |             |  |         |          |
| MATERIAL SPECIFICATIONS:              |             | SIGNATURES DATE  |         |          |
| DRAWN:                                |             | SULLEN,ZHANG   | 15JAN20 |          |
| CHECKED:                              |             | ORION,LI   | 16JAN20 |          |
| ENGINEER:                             |             |  |         |          |
| APPROVAL:                             |             | TOMMY,XIE  | 17JAN20 |          |
| CUSTOMER:                             |             |  |         |          |
| PROCESS SPECIFICATIONS:               |             | THIS DRAWING IS SUPPLIED FOR INFORMATION ONLY. DESIGN FEATURES, SPECIFICATIONS AND PERFORMANCE DATA SHOWN HEREON ARE THE PROPERTY OF THE AMPHENOL CORPORATION. NO RIGHTS OF REPRODUCTION ARE IMPLIED. ALL DIMENSIONS ARE SUBJECT TO NORMAL MANUFACTURING VARIATIONS. |         |          |
| NEXT ASSY:                            |             | SCALE: NONE  |         |          |
|                                       |             | SIZE TYPE DWG NO.  |         | REVISION |
|                                       |             | B C- ATM13-12PX-12PX-BMXX  |         | A3       |
|                                       |             | SINE SYSTEMS - www.amphenol-sine.com<br>44724 Morley Drive<br>Clinton Township, MI 48036   |         |          |
|                                       |             | ARMOR IPX RECEPTACLE ATM HEADER,<br>2 x 12 POSITIONS, SIZE 20 CONTACT  |         |          |
|                                       |             | SHEET 4 OF 4   |         |          |

TITLE: ARMOR IPX RECEPTACLE ATM HDR, 2x12 POSITIONS, SIZE 20 CONTACT  
DWG NO.: ATM13-12PX-12PX-BMXX  
REV: A3  
SH: 4  
OF: 4

# Mouser Electronics

Authorized Distributor

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[ATM13-12PA-12PC-BM03](#)