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| REV. | ECN NO. | DATE       | SIGN   | DESCRIPTION        |
|------|---------|------------|--------|--------------------|
| B    | C190510 | 2019-03-21 | Su Nan | Add The Size Table |
|      |         |            |        |                    |

10.6<sup>+0.1</sup><sub>0</sub>

12.2<sup>±0.1</sup>

Recommended  
Panel Cut-Out

ALTW

CONFIDENTIAL

2019-03-21

R&D DEPT.

19.5

8.5

9.2

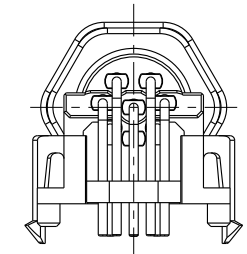
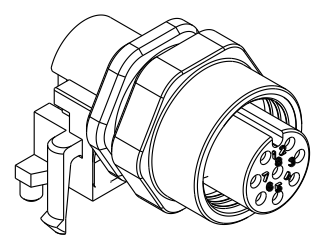
16.7

17.0

15.0 (Hex.)

14.5

14.0 (Hex.)



|                    |      |      |     |
|--------------------|------|------|-----|
| MSAS-03PFFR-SF7003 | 26.6 | 25.5 | 1.0 |
| MSAS-04PFFR-SF7003 | 26.6 | 25.5 | 1.0 |
| MSAS-05PFFR-SF7003 | 26.6 | 25.5 | 1.0 |
| MSAS-08PFFR-SF7003 | 26.4 | 25.7 | 0.8 |

| Item No. | A | B | OD |
|----------|---|---|----|
| 3P       |   |   |    |
| 4P       |   |   |    |
| 5P       |   |   |    |
| 8P       |   |   |    |

Pin Assignment Front View

Connector

O-ring1

O-ring2

O-ring3

Mounting Nut

Screw Nut

Grounding Pin

Pin Holder

Note:

- \*  $\varnothing$  Important Dimension To Check.
- \* Waterproof Rating: IP67(Mated Waterproof)
- \* Connector: PBT+PC, Black
- \* Female Pins: Copper Alloy, Gold Plated
- \* Mounting Nut: Zinc Alloy, Nickel Plated
- \* Screw Nut: Zinc Alloy, Nickel Plated
- \* Grounding Pin: Copper Alloy, Nickel Plated
- \* O-ring1: Silicon, Black
- \* O-ring2: Silicon, Gray
- \* O-ring3: Silicon, Gray
- \* Pin Holder: PBT+PC, Black
- \* Rated Voltage: 3 & 4Pin 250V dc. or ac.  
5Pin 60V dc. or ac.  
8Pin 30V dc. or ac.
- \* Rated Current: 3~5Pin 4A  
8Pin 2A
- \* For Panel Thickness Max. 3.0mm
- \* For PCB Thickness Max. 1.5mm

UNIT:mm

TOLERANCE

.X ±0.25

.XX ±0.1

.XXX ±0.05

ANGLES ±1°

TITLE

M12,90° Panel,Shielded FCONN FPIN  
(Mated Waterproof)

SCALE

3:2

SIZE

A4

SHEET

1

OF

2

REV.

B

WC-REV.

A.3

QC:Inspection item

Amphenol LTW

安費諾亮泰企業股份有限公司

ITEM NO

MSAS-XXPFFR-SF7003

DWG NO

MSAS-XXPFFR-SF7003

CUSTOMER

ALTW

DRAWN BY

Su Nan

CHECKED BY

Feng

APPROVED BY

Jerry

DATE

2019-03-21

DATE

2019-03-21

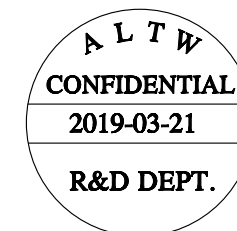
DATE

2019-03-21

8

W10814-03-2101A2

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M SAS - XX P F F R - S F 7 003

12A: A-Code Shielded

03: 3Pin  
04: 4Pin  
05: 5Pin  
08: 8Pin

P: Panel (板端)

F: Female Connector (母座)

003: M12\*1.0

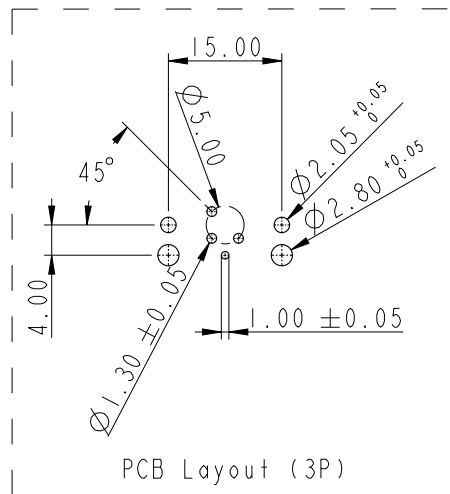
7: IP67 (防水等級67)

F: Front Fasten (前鎖式/Enclosure Rear Mount)

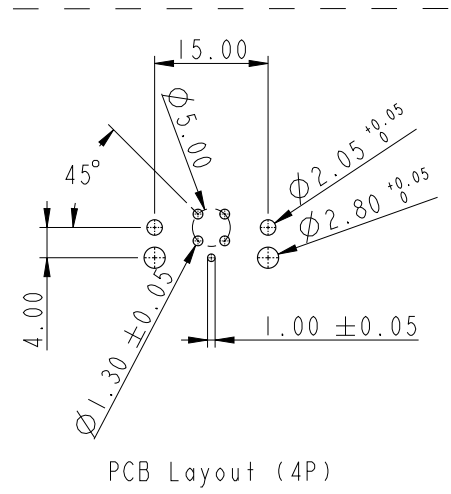
S: Screw (螺紋式)

R: 90° PCB THT/DIP Type (90° 基板插件式)

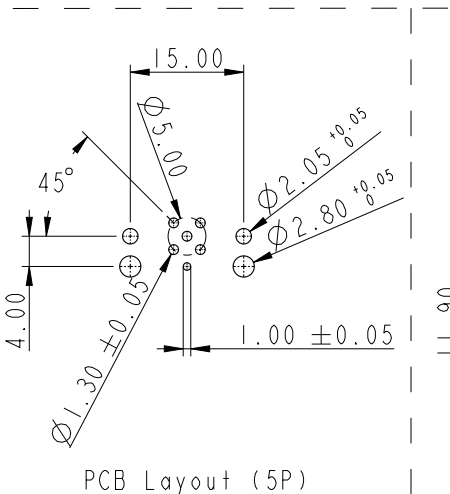
F: Female Pin (母Pin)



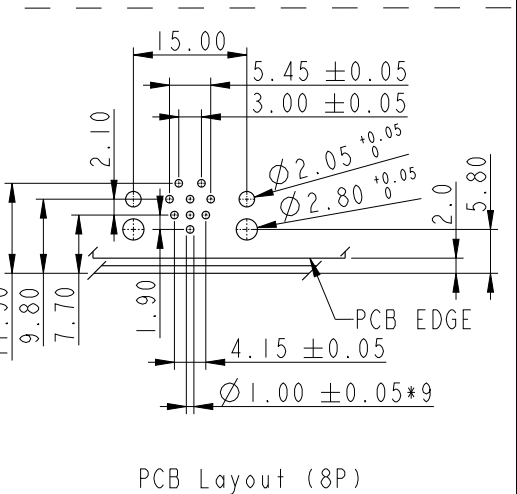
PCB Layout (3P)



PCB Layout (4P)



PCB Layout (5P)



PCB Layout (8P)

|                                          |       |                                                                    |                     |
|------------------------------------------|-------|--------------------------------------------------------------------|---------------------|
| UNIT: mm                                 |       | TITLE<br>M12, 90° Panel, Shielded FCONN FPIN<br>(Mated Waterproof) |                     |
| TOLERANCE<br>.X<br>.XX<br>.XXX<br>ANGLES | ±0.25 | SCALE<br>3:2                                                       | SIZE<br>A4          |
|                                          | ±0.1  | REV.<br>B                                                          | SHEET<br>2 OF 2     |
|                                          | ±0.05 | WC-REV.<br>A.3                                                     | QC: Inspection item |

**Amphenol LTW**  
安費諾亮泰企業股份有限公司

|                               |                      |                    |
|-------------------------------|----------------------|--------------------|
| ITEM NO<br>MSAS-XXPFFR-SF7003 | DRAWN BY<br>Su Nan   | DATE<br>2019-03-21 |
| DWG NO<br>MSAS-XXPFFR-SF7003  | CHECKED BY<br>Feng   | DATE<br>2019-03-21 |
| CUSTOMER<br>ALTW              | APPROVED BY<br>Jerry | DATE<br>2019-03-21 |