

NOTES: UNLESS OTHERWISE SPECIFIED

1. SEE SHEET 2 FOR KEY ARRANGEMENTS AND COLORS.

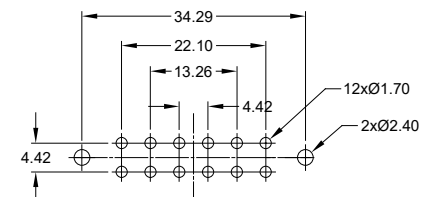
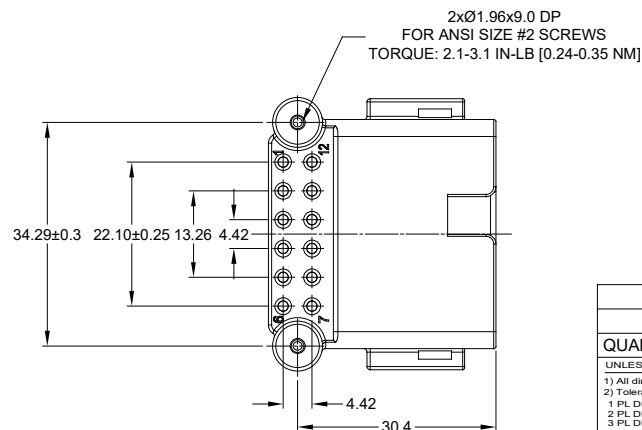
2. MATERIAL:  
HOUSING: THERMOPLASTIC  
CONTACT: COPPER ALLOY  
PLATING: NICKEL UNDERPLATE  
SEE CHART FOR OVERALL FINISH

3. MODIFICATIONS: RIGHT ANGLE PCB MOUNT, SCREW BOSS  
KEYED, HOUSING COLOR

4. SPECIFICATIONS:  
4.1 CURRENT RATING: 13 AMPS  
4.2 OPERATING TEMPERATURE: -55°C TO +125°C  
4.3 DIELECTRIC WITHSTANDING VOLTAGE: LESS THAN 2  
MILLIAMPS CURRENT LEAKAGE @ 1500 VOLTS AC.  
4.4 INSULATION RESISTANCE: 1000 MEGOHMS MIN @ 25°C.  
4.5 MOISTURE RESISTANCE: IP67 ( MATED CONDITION )  
4.6 MATING CYCLE DURABILITY: 100 CYCLES  
4.7 RoHS COMPLIANT

5. MATING PART: AT06-12S\* PLUG  
(\* = MODIFICATIONS AND COLORS )

6. ALL DIMENSIONS ARE FOR REFERENCE USE ONLY.



RECOMMENDED PCB LAYOUT

| REVISIONS |     |                      |           |       |       |
|-----------|-----|----------------------|-----------|-------|-------|
| REV       | ECO | DESCRIPTION          | DATE      | BY    | APPR  |
| A1        | -   | RELEASE              | 02JUL2018 | JAH   |       |
| A2        | -   | UPDATE DRAWING       | 25/MAR/19 | BROOK | TOMMY |
| A3        | -   | MODIFIED DESCRIPTION | 12JUL19   | BROOK | TOMMY |

|                                                                                                           |                |                                                                                                                                                                                                                                                                      |  |                               |
|-----------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|
| SEE PART NUMBER CHART                                                                                     |                | REF: DTF13-12PA, DTF13-12PB, DTF13-12PC, DTF13-12PD, DTF13-12PA-Q003                                                                                                                                                                                                 |  |                               |
| PART NUMBER                                                                                               |                | DESCRIPTION                                                                                                                                                                                                                                                          |  | ITEM                          |
| QUANTITY                                                                                                  | MATERIALS LIST |                                                                                                                                                                                                                                                                      |  |                               |
| UNLESS OTHERWISE SPECIFIED                                                                                |                | SIGNATURES                                                                                                                                                                                                                                                           |  | DATE                          |
| 1) All dimensions are in metric(mm).                                                                      |                | DRAWN: BROOK DING                                                                                                                                                                                                                                                    |  | 12/JUL/19                     |
| 2) Tolerances are as follows:                                                                             |                | CHECKED: ORION LI                                                                                                                                                                                                                                                    |  | 12/JUL/19                     |
| 1 PL DEC ±0.30   Fractions ±1/64                                                                          |                | ENGINEER:                                                                                                                                                                                                                                                            |  |                               |
| 2 PL DEC ±0.15   Angles ±1°                                                                               |                | APPROVAL: TOMMY XIE                                                                                                                                                                                                                                                  |  | 12/JUL/19                     |
| 3) Note reference =  |                |                                                                                                                                                                                                                                                                      |  |                               |
| 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: B C-                                                                                                                                                                                                                                                           |  | TYPE: DWG NO: ATF13-12PX-BM1X |
|                                                                                                           |                | SCALE: NONE                                                                                                                                                                                                                                                          |  | REVISION: A3                  |
|                                                                                                           |                | SHEET 1                                                                                                                                                                                                                                                              |  | OF 1                          |

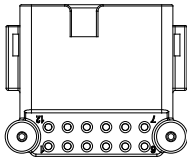
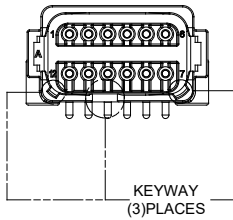
Amphenol

Sine Systems - www.amphenol-sine.com  
44724 Morley Drive  
Clinton Township, MI 48036

RIGHT ANGLE RECEPTACLE, AT 12 PIN,  
SCREW BOSS, BOARD LOCK

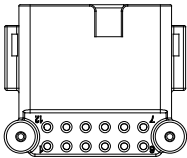
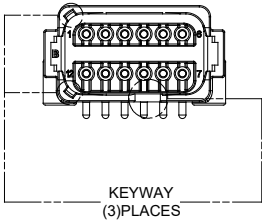
| REVISIONS |     |                      |           |       |       |
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| A3        | -   | MODIFIED DESCRIPTION | 12JUL19   | BROOK | TOMMY |

P/N ATF13-12PA-BM1X  
KEY-A CONFIGURATION  
STANDARD COLOR: GREY



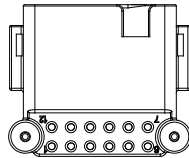
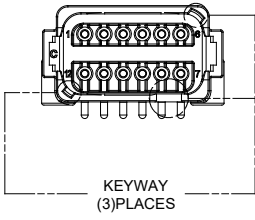
| ATF13-12PA-BM1X VARIANTS |                 |
|--------------------------|-----------------|
| CONTACT PLATING          | PART NUMBER     |
| GOLD                     | ATF13-12PA-BM11 |
| TIN                      | ATF13-12PA-BM13 |

P/N ATF13-12PB-BM1X  
KEY-B CONFIGURATION  
STANDARD COLOR: BLACK



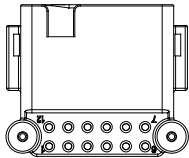
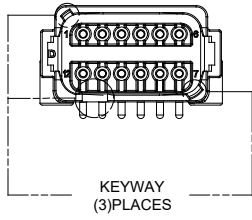
| ATF13-12PB-BM1X VARIANTS |                 |
|--------------------------|-----------------|
| CONTACT PLATING          | PART NUMBER     |
| GOLD                     | ATF13-12PB-BM11 |
| TIN                      | ATF13-12PB-BM13 |

P/N ATF13-12PC-BM1X  
KEY-C CONFIGURATION  
STANDARD COLOR: GREEN



| ATF13-12PC-BM1X VARIANTS |                 |
|--------------------------|-----------------|
| CONTACT PLATING          | PART NUMBER     |
| GOLD                     | ATF13-12PC-BM11 |
| TIN                      | ATF13-12PC-BM13 |

P/N ATF13-12PD-BM1X  
KEY-D CONFIGURATION  
STANDARD COLOR: BROWN



| ATF13-12PD-BM1X VARIANTS |                 |
|--------------------------|-----------------|
| CONTACT PLATING          | PART NUMBER     |
| GOLD                     | ATF13-12PD-BM11 |
| TIN                      | ATF13-12PD-BM13 |

|                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| SEE PART NUMBER CHART                                                                                                                                                              |  |                                                                                                                                                                                                                                                                      |  |
| PART NUMBER                                                                                                                                                                        |  | DESCRIPTION                                                                                                                                                                                                                                                          |  |
| QUANTITY                                                                                                                                                                           |  | ITEM                                                                                                                                                                                                                                                                 |  |
| 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 = |  | <b>Amphenol</b><br>Sine Systems - www.amphenol-sine.com<br>44724 Morley Drive<br>Clinton Township, MI 48036                                                                                                                                                          |  |
| SIGNATURES                                                                                                                                                                         |  | DATE                                                                                                                                                                                                                                                                 |  |
| DRAWN: BROOK DING                                                                                                                                                                  |  | 12/JUL/19                                                                                                                                                                                                                                                            |  |
| CHECKED: ORION LI                                                                                                                                                                  |  | 12/JUL/19                                                                                                                                                                                                                                                            |  |
| ENGINEER:                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                      |  |
| APPROVAL: TOMMY XIE                                                                                                                                                                |  | 12/JUL/19                                                                                                                                                                                                                                                            |  |
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| NEXT ASSY:                                                                                                                                                                         |  |                                                                                                                                                                                                                                                                      |  |
| SIZE                                                                                                                                                                               |  | TYPE                                                                                                                                                                                                                                                                 |  |
| B                                                                                                                                                                                  |  | C-                                                                                                                                                                                                                                                                   |  |
| SCALE: NONE                                                                                                                                                                        |  | DWG NO: ATF13-12PX-BM1X                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                    |  | REVISION: A3                                                                                                                                                                                                                                                         |  |
|                                                                                                                                                                                    |  | SHEET 2 OF 2                                                                                                                                                                                                                                                         |  |

TITLE: RIGHT ANGLE RECEPT, AT 12 PIN, SCREW BOSS, BOARD LOCK  
DWG NO: ATF13-12PX-BM1X  
REV: A3  
Sht: 2  
Of: 2

# Mouser Electronics

Authorized Distributor

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[ATF13-12PC-BM13](#)