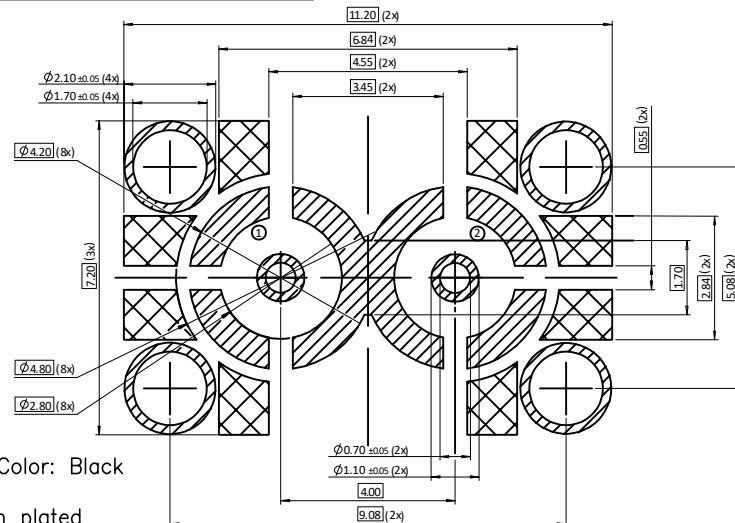


APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

| Rev | AWO # | Description  | Date    | Appr   |
|-----|-------|--------------|---------|--------|
| -   |       | RELEASED     | 9/3/25  |        |
| A   |       | UPDATE SPEC. | 9/26/25 | LW1/RC |



RECOMMENDED PCB LAYOUT

#### SPECIFICATIONS:

##### Material:

Coding Housing: PA, Color: See Chart

Inner Housing: Hi-Temp Thermoplastic, Color: Black

Contact: Copper Alloy

Contact Cylinder: Copper Alloy, Matte Tin plated

Outer Contact (PCB): Zamak, Matte Tin plated

##### Contact Plating:

Contact area: 6u" Gold Plated

Solder tails area: 80-160u" Matte Tin Plated

Underplate: 40-160u" Nickel underplate overall

##### Electrical:

Impedance: 50 ohms

Frequency: DC to 9.0 GHz

Return Loss:

25 dB Min (DC < f ≤ 3 GHz)

20 dB Min (3 GHz < f ≤ 6 GHz)

12 dB Min (6 GHz < f ≤ 9 GHz)

Insulation resistance: 1000 Mohms Min

Dielectric withstanding voltage: 800 Vrms AC Min for 1 minute

Voltage rating: 335 Vrms AC

Current rating: 1A Max

Center Contact Resistance: 10 mohms Max

Outer Contact Resistance: 5 mohms Max

##### Mechanical:

Durability: 25 Cycles Min

Engagement force: 30N Max

Retention Force Latch: 110N Min

Coding Efficiency: 150N Max

Mismating Orientation Effectiveness: 150N Max

##### Environmental:

Thermal Shock & Humidity & Vibration & Mechanical Shock:

USCAR-2 & USCAR-17

EN 60512 & DIN IEC 60068

Soldering: IEC 60068-2

##### Temperature Rating:

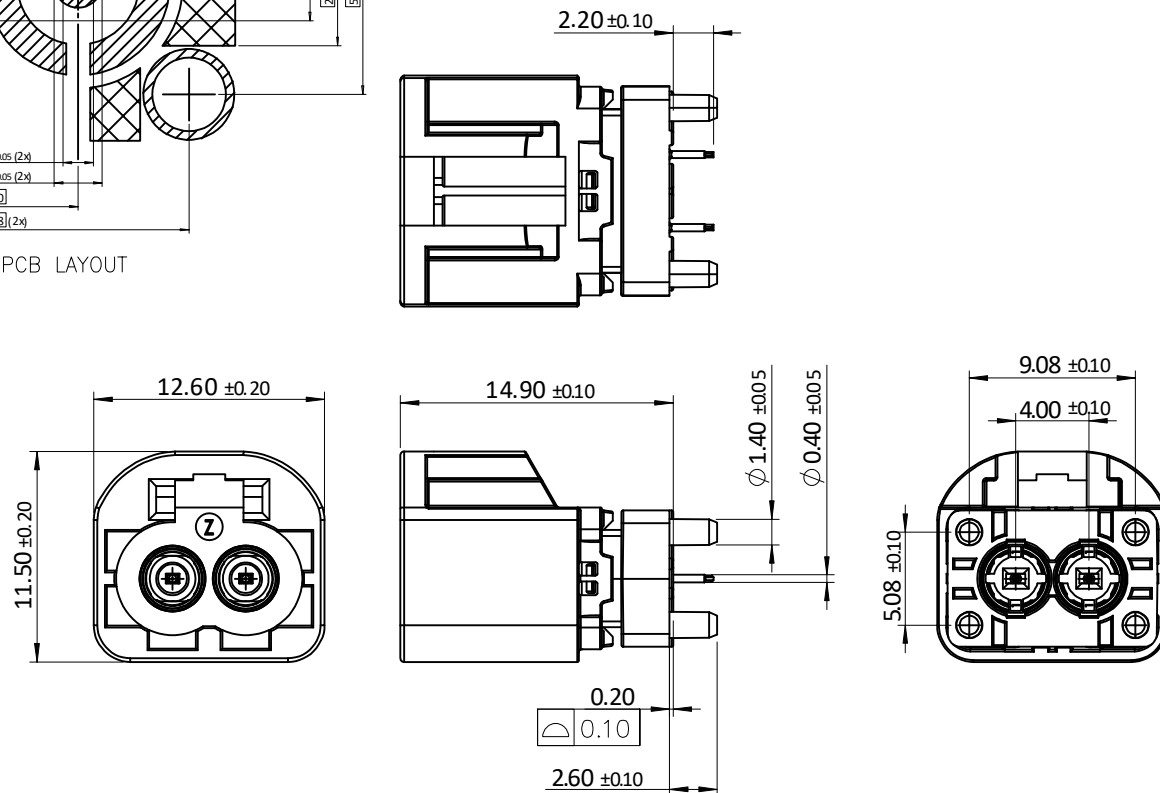
Operating temperature: -40°C to +105°C

##### Packing:

Standard: 100PCS in Tape & Reel

##### Environmental:

Lead free, RoHS compliant



PACKAGED ON TAPE & REEL

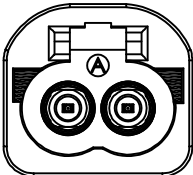
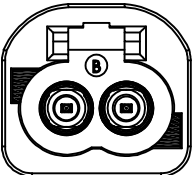
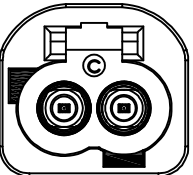
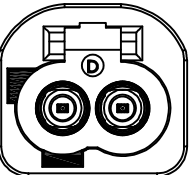
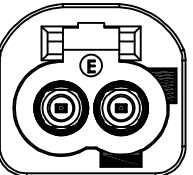
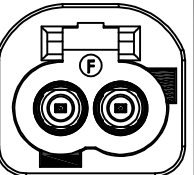
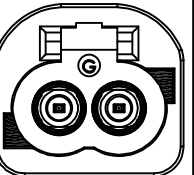
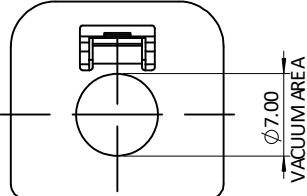
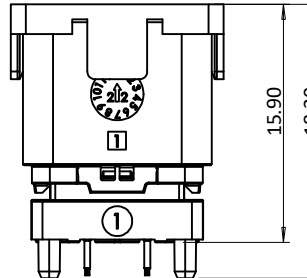
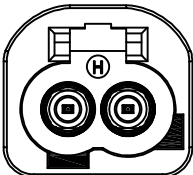
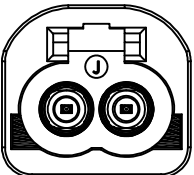
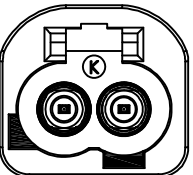
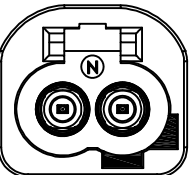
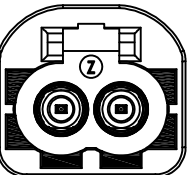
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |                                   |                                                                                                                      |                                       |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------|
| UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS<br>ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |                                   | <div>ADAM<br/>TECH</div> <div>909 Rahway Avenue,<br/>Union, NJ 07083<br/>Phone: 908-687-5000<br/>adam-tech.com</div> |                                       |        |
| MM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | X. ± 0.50<br>.X ± 0.30<br>.XX ± 0.20 | ANGLE                             |                                                                                                                      |                                       | ± 5°   |
| DRAWN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      | LW1                               |                                                                                                                      |                                       | 9/3/25 |
| CHECKED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      | RC                                | 9/3/25                                                                                                               | TITLE<br><br>MINI FAKRA STRAIGHT PLUG |        |
| APPROVED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |                                   |                                                                                                                      |                                       |        |
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| SIZE<br>X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      | PART NO.<br>MHSD-02X-AM-PT-PP-T/R |                                                                                                                      | REV<br>A                              |        |
| REF: S00013T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      | SCALE: NTS                        |                                                                                                                      | SHEET 1 OF 2                          |        |

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

| Rev                         | AWO # | Description | Date | Appr |
|-----------------------------|-------|-------------|------|------|
| SEE SHT 1 OF 2 FOR REVISION |       |             |      |      |

MHSD-02X-AM-PT-PP-T/R

| Coding | A                                                                                 | B                                                                                 | C                                                                                  | D                                                                                   | E                                                                                   | F                                                                                                                                                                                       | G                                                                                   |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Plug   |  |  |  |  |  |                                                                                                      |  |
| Color  | JET BLACK                                                                         | PURE WHITE                                                                        | LIGHT BLUE                                                                         | CLARET VIOLET                                                                       | MAY GREEN                                                                           | NUT BROWN                                                                                                                                                                               | PLATINUM GREY                                                                       |
| Coding | H                                                                                 | J                                                                                 | K                                                                                  | N                                                                                   | Z                                                                                   | <br><br>WITH CAP |                                                                                     |
| Plug   |  |  |  |  |  |                                                                                                                                                                                         |                                                                                     |
| Color  | LIGHT PINK                                                                        | BEIGE                                                                             | CURRY                                                                              | YELLOW GREEN                                                                        | WATER BLUE                                                                          |                                                                                                                                                                                         |                                                                                     |

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS  
ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED

|    |            |       |      |
|----|------------|-------|------|
| MM | X. ± 0.50  | ANGLE | ± 5° |
|    | .X ± 0.30  |       |      |
|    | .XX ± 0.20 |       |      |

|          |     |        |
|----------|-----|--------|
| DRAWN    | LW1 | 9/3/25 |
| CHECKED  | RC  | 9/3/25 |
| APPROVED |     |        |

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|                                          |                                          |                        |
|------------------------------------------|------------------------------------------|------------------------|
| TITLE<br><b>MINI FAKRA STRAIGHT PLUG</b> |                                          |                        |
| SIZE<br><b>X</b>                         | PART NO.<br><b>MHSD-02X-AM-PT-PP-T/R</b> | REV.<br><b>A</b>       |
| REF:<br><b>S00013T</b>                   | SCALE:<br><b>NTS</b>                     | SHEET<br><b>2 OF 2</b> |