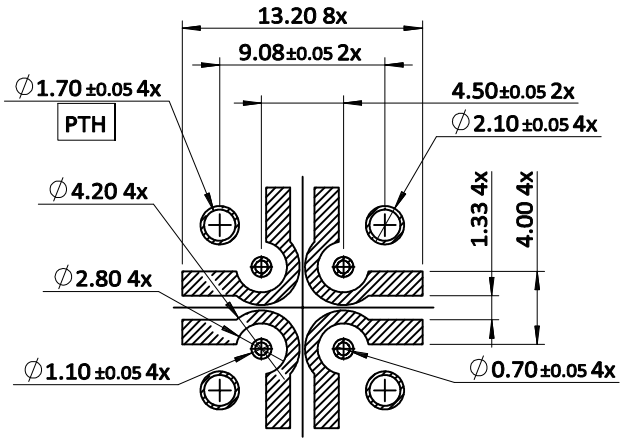
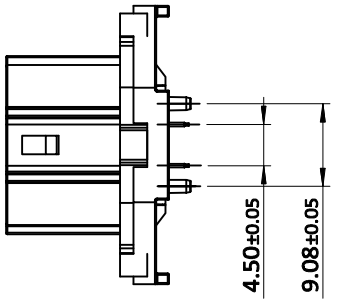
APPROVED: _____

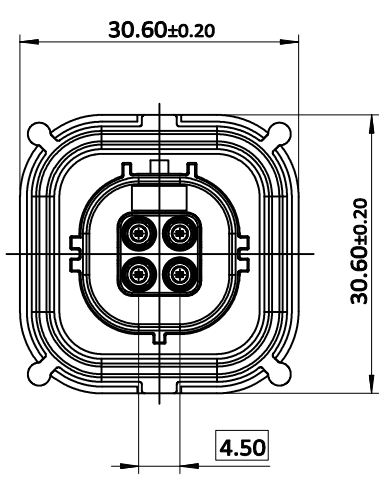
DATE: _____ TITLE: _____

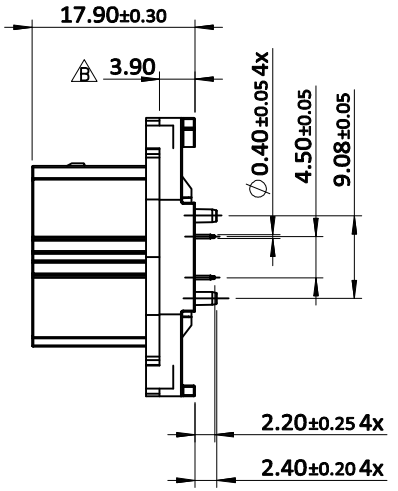
| Rev | AWO # | Description | Date | Appr |
|---|---|---|---|---|
| - | | RELEASED | 9/3/25 | |
| A | | UPDATE SPEC. | 9/26/25 | LW1/RC |
| B | | UPDATE SPEC. | 5/21/26 | LW1/AC1 |




RECOMMENDED PCB LAYOUT




**SPECIFICATIONS:**

**Material:**
Coding Housing: PA, Color: See Chart
Inner Housing: Hi-Temp Thermoplastic, Color: Black
Cap: Hi-Temp Thermoplastic, Color: Black B
Contact: Copper Alloy
Outer Contact: Zinc Alloy, Matte Tin Plated
O-Ring: Silicone Rubber, Color: Orange B

**Contact Plating:**
Contact area: 6u" Gold Plated
Solder tails area: 80-160u" Matte Tin Plated
Underplate: 80-160u" Nickel underplate overall

**Electrical:**
Impedance: 50 ohms
Frequency: DC to 9 GHz
Return Loss: 25db Min, DC to 3 GHz Max
20db Min, >3 GHz to 6 GHz Max
12db Min, >6 GHz to 9 GHz Max
Insulation resistance: 1000 Mohms Min @ 100V DC
Dielectric withstanding voltage: 800 Vrms AC Min @ 60Hz
Voltage Rating: 335 Vrms AC
Current Rating: 1A Max
Contact Resistance: 15mohms Max

**Mechanical:**
Mating Cycles: 5 Cycles Min
Engagement force: 75N Max
Retention Force Latch: 110N Min
Coding Efficiency: 200N Min

**Temperature Rating:**
-40°C to +105°C

**Packing:**
Standard: 55PCS in Tape& Reel A

**Environmental:**
Waterproof: IP69K
Lead free, RoHS compliant RoHS COMPLIANT

PACKAGED ON TAPE & REEL

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

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

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


**CONFIDENTIAL AND PROPRIETARY**
© Adam Tech. All rights reserved. This document contains confidential and proprietary information belonging to Adam Tech. It is provided solely for design and reference purposes by authorized parties. Any reproduction, distribution, display, or disclosure to third parties, in whole or in part, without the prior written consent of Adam Tech, is strictly prohibited. Adam Tech retains all rights, including copyright, trademark, trade secret, and all other intellectual property rights worldwide.



ADAM TECH
909 Rahway Avenue,
Union, NJ 07083
Phone: 908-687-5000
adam-tech.com


TITLE
MINI FAKRA STRAIGHT PLUG
WATERPROOF: IP69K

| SIZE | PART NO. | REV. |
|---|---|---|
| X | MHSD-04X-AM-PT-WP-PP-T/R | B |

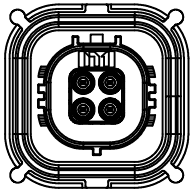
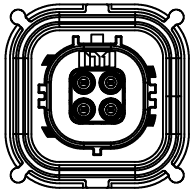
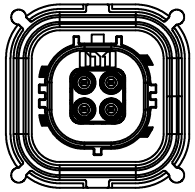
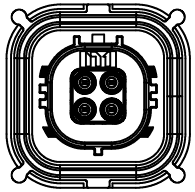
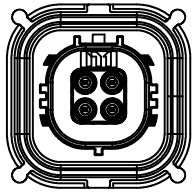
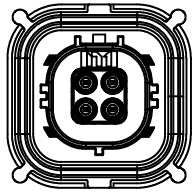
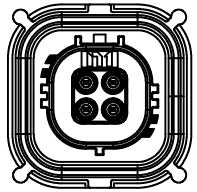
| REF: | SCALE: | SHEET |
|---|---|---|
| S00013T | NTS | 1 OF 2 |

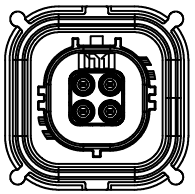
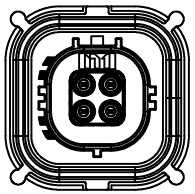
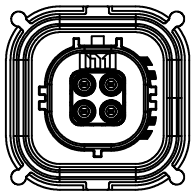
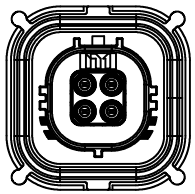
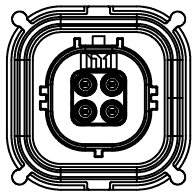

Downloaded from Arrow.com.

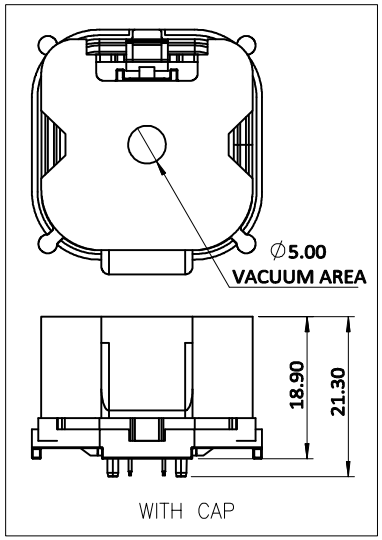
| Rev | AWO # | Description | Date | Appr |
|---|---|---|---|---|
| SEE SHT 1 OF 2 FOR REVISION | | | | |

APPROVED: _____

DATE: _____ TITLE: _____

| 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 |
|---|---|---|---|---|---|
| Plug |  |  |  |  |  |
| Color | LIGHT PINK | BEIGE | CURRY | PASTEL GREEN | WATER BLUE |




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

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

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

**CONFIDENTIAL AND PROPRIETARY**
© Adam Tech. All rights reserved. This document contains confidential and proprietary information belonging to Adam Tech. It is provided solely for design and reference purposes by authorized parties. Any reproduction, distribution, display, or disclosure to third parties, in whole or in part, without the prior written consent of Adam Tech, is strictly prohibited. Adam Tech retains all rights, including copyright, trademark, trade secret, and all other intellectual property rights worldwide.

ADAM TECH
909 Rahway Avenue,
Union, NJ 07083
Phone: 908-687-5000
adam-tech.com

TITLE
MINI FAKRA STRAIGHT PLUG
WATERPROOF: IP69K

| SIZE | PART NO. | REV. |
|---|---|---|
| X | MHSD-04X-AM-PT-WP-PP-T/R | B |

| REF: | SCALE: | SHEET |
|---|---|---|
| S00013T | NTS | 2 OF 2 |

Downloaded from Arrow.com.