

APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-		RELEASED	9/3/25	

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

Insulation resistance: 1000 Mohms Min

Dielectric withstanding voltage: 800 Vrms AC Min for 1 minute

Frequency: DC to 9.0 GHz

Return Loss:

25 dB Min ($DC < f \leq 3 \text{ GHz}$)

20 dB Min ($3 \text{ GHz} < f \leq 6 \text{ GHz}$)

12 dB Min ($6 \text{ GHz} < f \leq 9 \text{ GHz}$)

Voltage rating: 335 Vrms AC

Current rating: 1A Max

Center Contact Resistance: 15 mohms Max

Outer Contact Resistance: 7.5 mohms Max

Mechanical:

Durability: 25 Cycles Min

Engagement force: 45N 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:

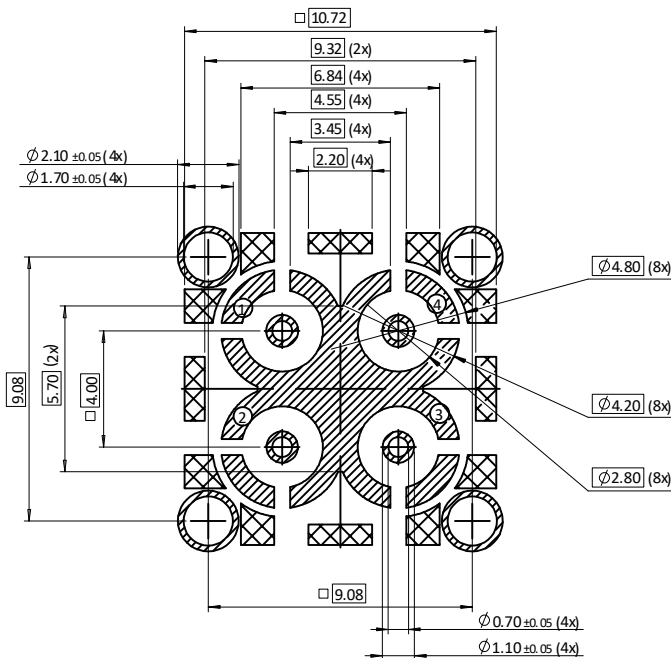
Operating temperature: -40°C to +105°C

Packing:

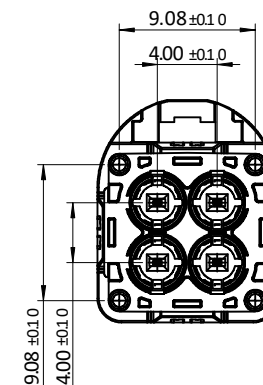
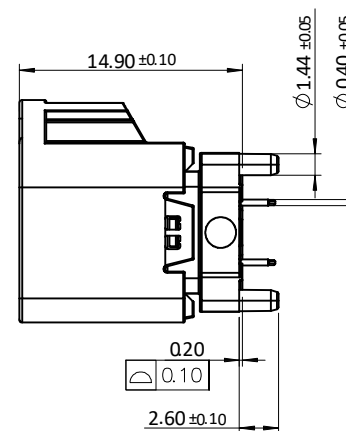
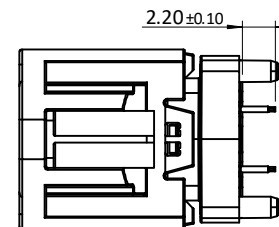
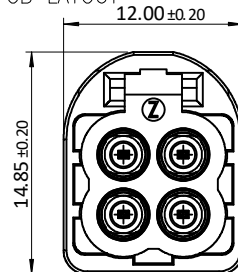
Standard: 120PCS in Tape& Reel

Environmental:

Lead free, RoHS compliant



RECOMMENDED PCB LAYOUT



PACKAGED ON TAPE & REEL

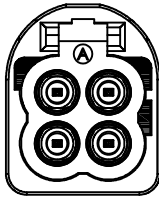
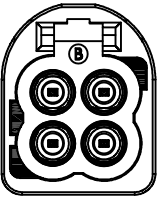
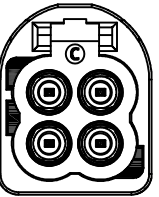
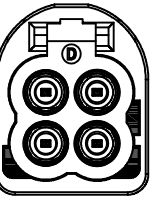
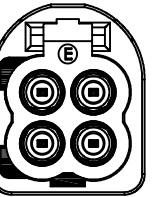
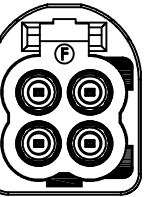
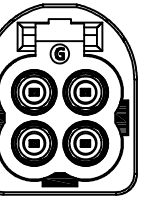
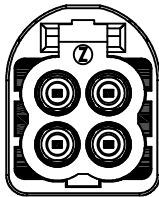
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED			ADAM TECH 909 Rahway Avenue, Union, NJ 07083 Phone: 908-687-5000 adam-tech.com		
MM	X. ± 0.50 .X ± 0.30 .XX ± 0.20	ANGLE ± 5°			
DRAWN	LW1	9/3/25	TITLE MINI FAKRA STRAIGHT PLUG		
CHECKED	RC	9/3/25			
APPROVED					
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			REF: S00013T	SCALE: NTS	SHEET 1 OF 2

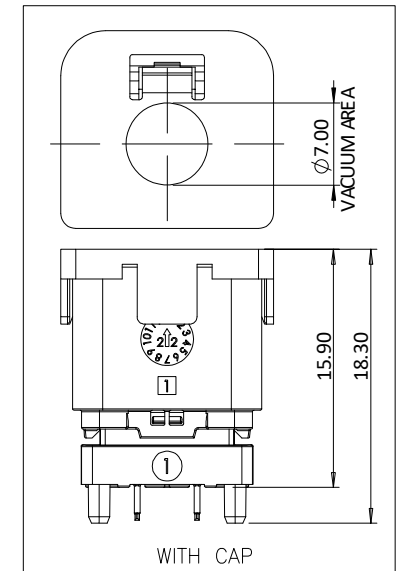
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SEE SHT 1 OF 2 FOR REVISION				

MHSD-04X-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	Z						
Plug							
Color	WATER BLUE						



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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

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TITLE
MINI FAKRA STRAIGHT PLUG

SIZE X	PART NO. MHSD-04X-AM-PT-PP-T/R	REV. -
REF: S00013T	SCALE: NTS	SHEET 2 OF 2