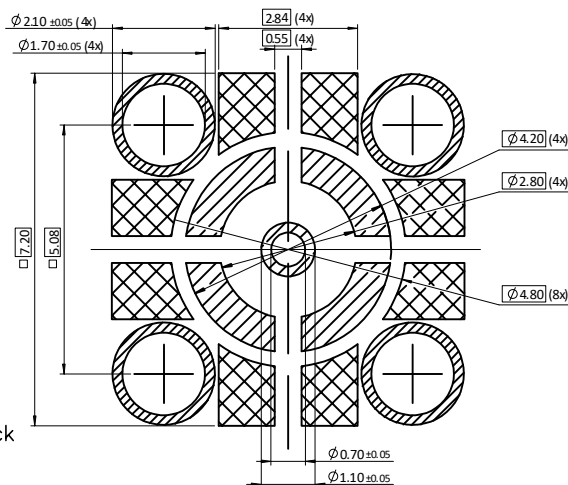


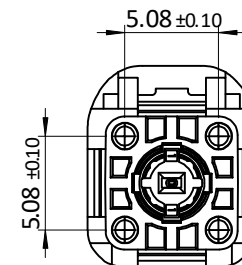
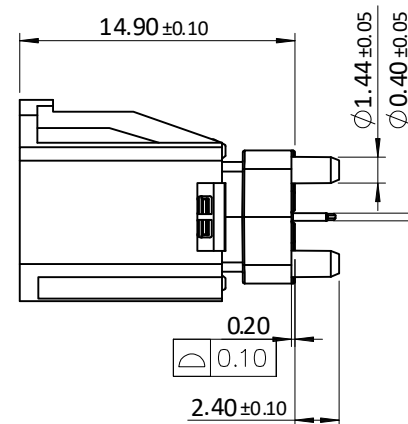
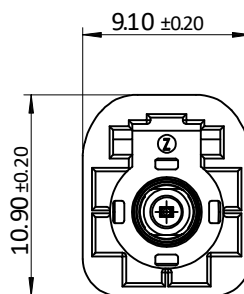
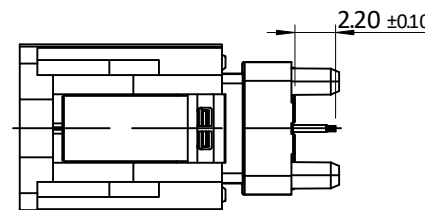
APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-		RELEASED	9/3/25	
A		UPDATE SPEC.	9/26/25	LW1/RC
B		UPDATE SPEC.	2/3/26	LW1/RC



RECOMMENDED PCB LAYOUT



SPECIFICATIONS:

Material:

Housing: PA, Color: See Chart

Inner Housing: Hi-Temp Thermoplastic, Color: Black

Contact: Copper Alloy

Contact Cylinder: Copper Alloy, Matte Tin plated

Outer Contacts (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 ($DC < f \leq 3$ GHz)

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

12 dB Min (6 GHz $< f \leq 9$ 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: 15N Max

Retention Force: 110N Min

Coding Efficiency: 150N Min

Mismating Orientation Effectiveness: 150N Max

Environmental:

Thermal Shock& Humidity& Vibration& Mechanical Shock:

USCAR-2 & USCAR-17

DIN EN 60512 & DIN IEC 60068

Soldering: IEC 60068-2

Temperature Rating:

Operating temperature: -40°C to $+105^{\circ}\text{C}$

Packing:

Standard: 120PCS in Tape& Reel

Environmental:

Lead free, RoHS compliant



PACKAGED ON TAPE & REEL

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

MM	X.	± 0.50	ANGLE	$\pm 5^{\circ}$
	.X	± 0.30		
	.XX	± 0.20		

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

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Union, NJ 07083
Phone: 908-687-5000
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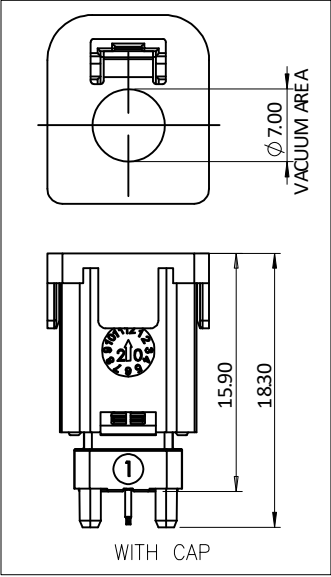
TITLE MINI FAKRA STRAIGHT PLUG		
SIZE X	PART NO. MHSD-01X-AM-PT-PP-T/R	REV. B
REF: S00013T	SCALE: NTS	SHEET 1 OF 2

APPROVED: _____

DATE: _____ TITLE: _____

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

MHSD-01X-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		
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	ANGLE	± 5°
	.X ± 0.30		
	.XX ± 0.20		

DRAWN LW1 9/3/25

CHECKED RC 9/3/25

APPROVED

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TITLE MINI FAKRA STRAIGHT PLUG			
SIZE X	PART NO. MHSD-01X-AM-PT-PP-T/R	REV. B	
REF: S00013T	SCALE: NTS	SHEET 2 OF 2	