

APPROVED: _____

DATE: _____ TITLE: _____

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

SPECIFICATIONS:

Material:

Coding Housing: (PA9T)Hi-Temp Thermoplastic, Color: See Chart

Inner Housing: Thermoplastic, Color: Black

Contact: Copper Alloy

Outer Contact (Interface): Copper Alloy, Matte Tin plated

Outer Contact (PCB): Zinc Alloy, Tin Plated

MQS Contact: Copper Alloy, Tin plated

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 9.0 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

Contact Resistance: 15 mohms Max (Initial), 40 mohms Max (After)

Dielectric withstanding voltage: 800 Vrms Max

Working voltage: 60V DC Max

Contact Power Current: 1A DC Max

MQS Contact Power Current: 5A DC Max @ 80°C

Mechanical:

Durability: 25 Cycles Min

Engagement force: 25N Max

Retention Force Latch: 110N Min

Environmental:

Thermal Shock& Humidity& Vibration& Mechanical Shock:

USCAR-2 & USCAR-17

DIN EN 60512 & DIN IEC 60068

Soldering: IEC 60068-2

Temperature Rating:

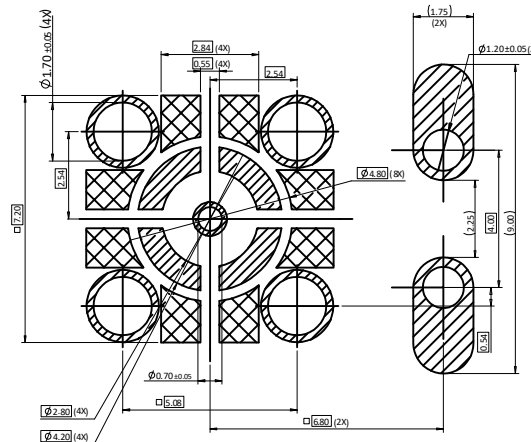
-40°C to +105°C

Packing:

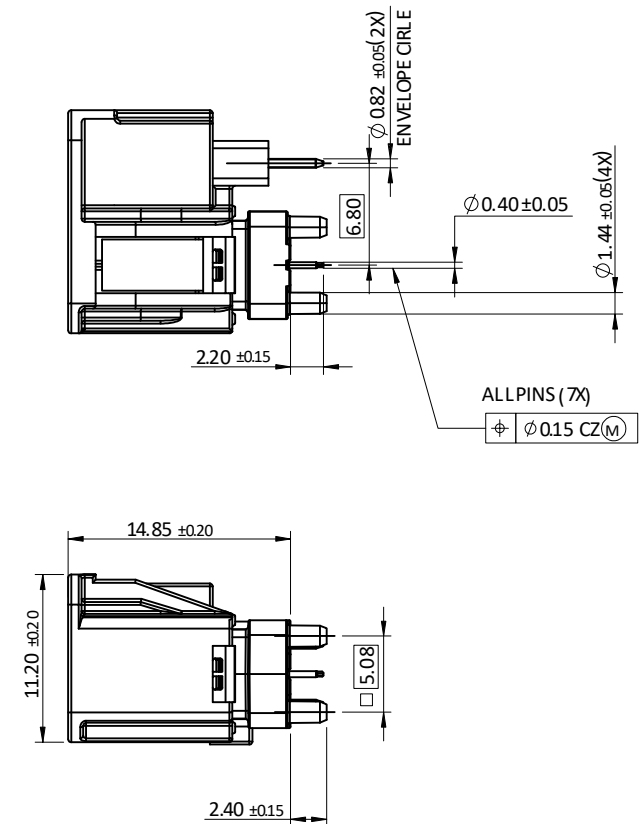
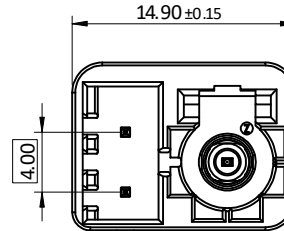
Standard: 120PCS in Tape& Reel 

Environmental:

Lead free, RoHS compliant 



RECOMMENDED PCB LAYOUT



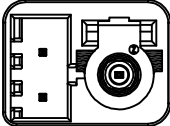
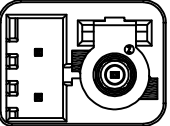
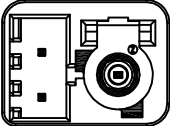
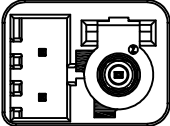
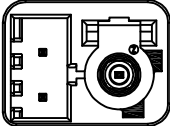
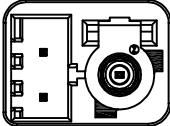
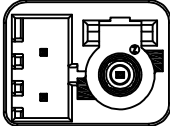
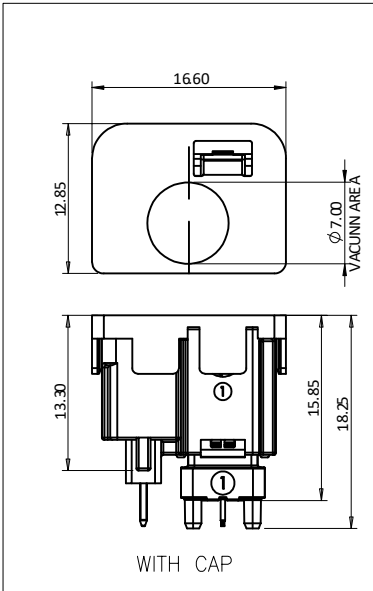
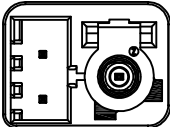
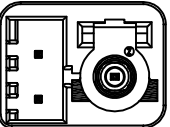
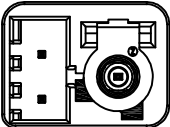
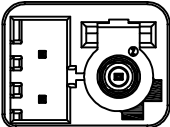
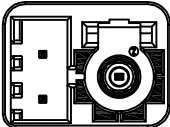
PACKAGED ON TAPE & REEL

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		
DRAWN	LW1	9/3/25		TITLE MINI FAKRA STRAIGHT PLUG
CHECKED	RC	9/3/25		
APPROVED				
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SIZE	PART NO.	REV.		
X	MHSD-01X-AM-PPT-PP-T/R	A		
REF:	S00013T	SCALE: NTS	SHEET 1 OF 2	

APPROVED: _____

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

Coding	A	B	C	D	E	F	G
Plug							
Color	JET BLACK	PURE WHITE	LIGHT BLUE	BORDEAUX 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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TECH

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Union, NJ 07083
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TITLE MINI FAKRA STRAIGHT PLUG		
SIZE X	PART NO. MHSD-01X-AM-PPT-PP-T/R	REV. A
REF: S00013T	SCALE: NTS	SHEET 2 OF 2