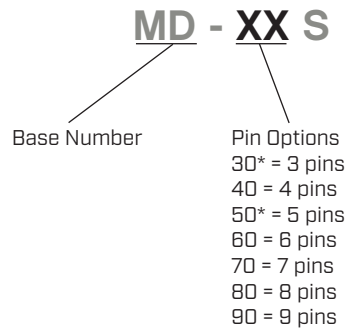


**SERIES:** MD-S | **DESCRIPTION:** MINI DIN CONNECTOR

**FEATURES**

- PCB mount
- right angle
- non-shielded


**PART NUMBER KEY**


Notes:      \*Discontinued models MD-30S & MD-50S

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated input voltage			100 12		Vac Vdc
rated input current	at 100 Vac at 12 Vdc			1 2	A A
contact resistance				30	mΩ
insulation resistance	at 250 Vdc	50			MΩ
voltage withstand				250	Vac
insertion force		0.8		6.0	kg
withdrawal force		0.8		4.5	kg
operating temperature		-40		85	°C
life			1,000		cycles
flammability rating	UL94V-0				
RoHS	yes				

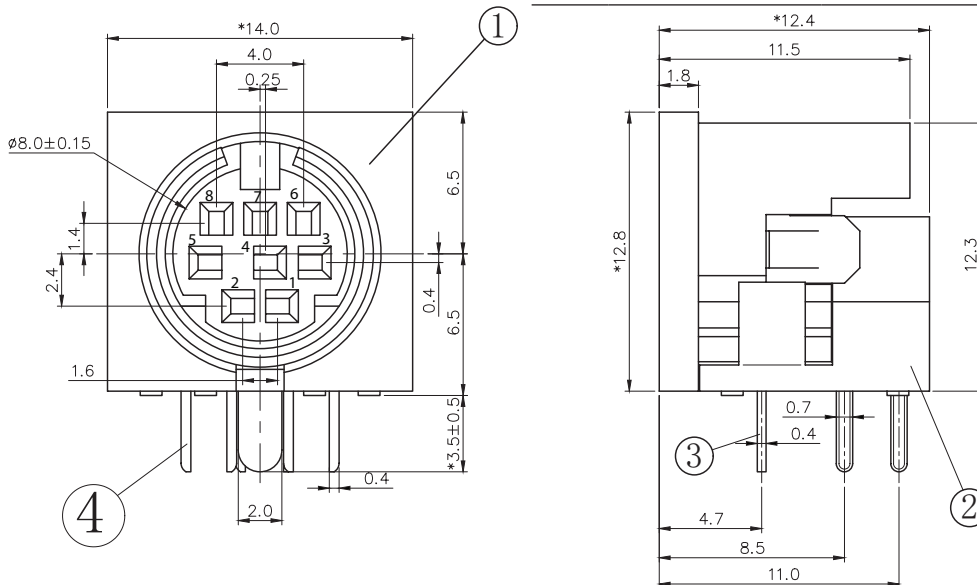
**SOLDERABILITY**

parameter	conditions/description	min	typ	max	units
wave soldering	for 10 seconds max	235		260	°C
hand soldering	for 5±1 seconds	240	245	250	°C

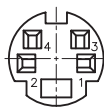
## MECHANICAL DRAWINGS (MD-30S, MD-40S, MD-50S)

units: mm  
 tolerance:  $\pm 0.3$  mm  
 PCB:  $\pm 0.1$  mm  
 unless otherwise noted

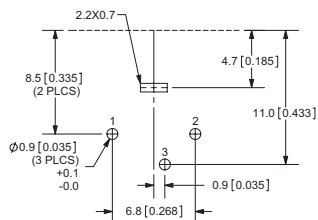
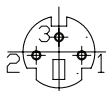
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	body	PBT (UL94V-0)	black
2	cover	PBT (UL94V-0)	black
3	earth terminal	brass	tin
4	terminals	phosphor bronze	silver



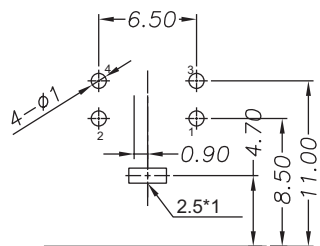
**MD-40S**



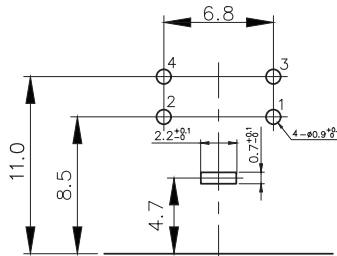
**MD-30S**



Recommended PCB Layout  
Top View

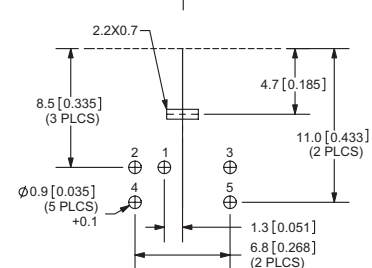
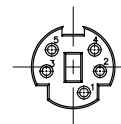


Recommended PCB Layout  
Top View  
[Date Codes prior to 03/03/2022]



Recommended PCB Layout  
Top View  
[Date Codes after 03/03/2022]

**MD-50S**

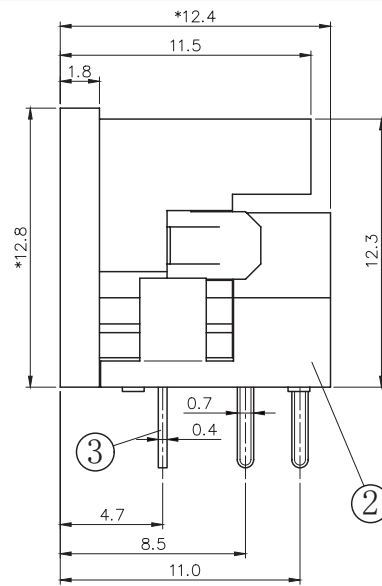
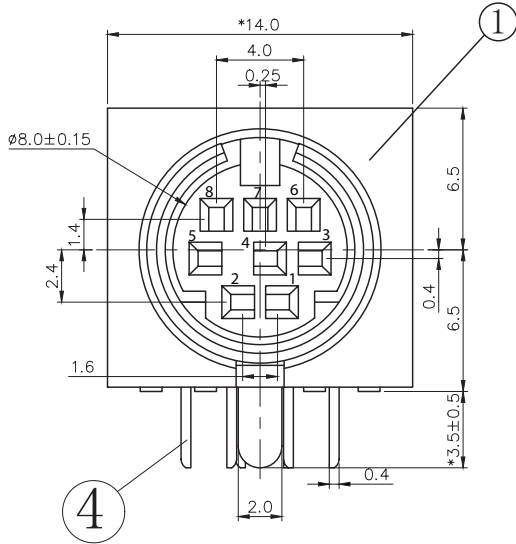


Recommended PCB Layout  
Top View

## MECHANICAL DRAWINGS (MD-60S, MD-70S, MD-80S)

units: mm  
 tolerance:  $\pm 0.3$  mm  
 PCB:  $\pm 0.1$  mm  
 unless otherwise noted

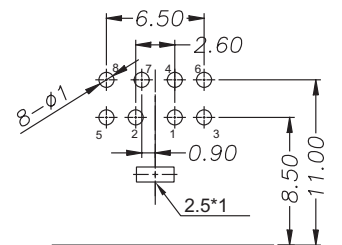
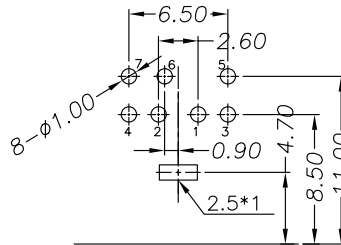
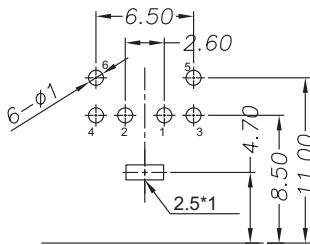
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	body	PBT (UL94V-0)	black
2	cover	PBT (UL94V-0)	black
3	earth terminal	brass	tin
4	terminals	phosphor bronze	silver



**MD-60S**

**MD-70S**

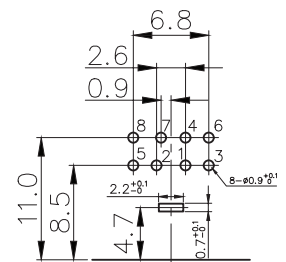
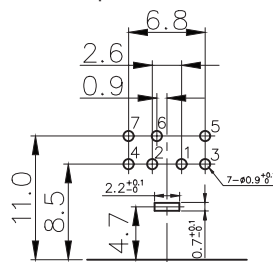
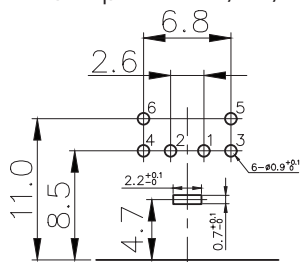
**MD-80S**



Recommended PCB Layout  
 Top View  
 [Date Codes prior to 03/03/2022]

Recommended PCB Layout  
 Top View  
 [Date Codes prior to 03/03/2022]

Recommended PCB Layout  
 Top View  
 [Date Codes prior to 03/03/2022]



Recommended PCB Layout  
 Top View  
 [Date Codes after 03/03/2022]

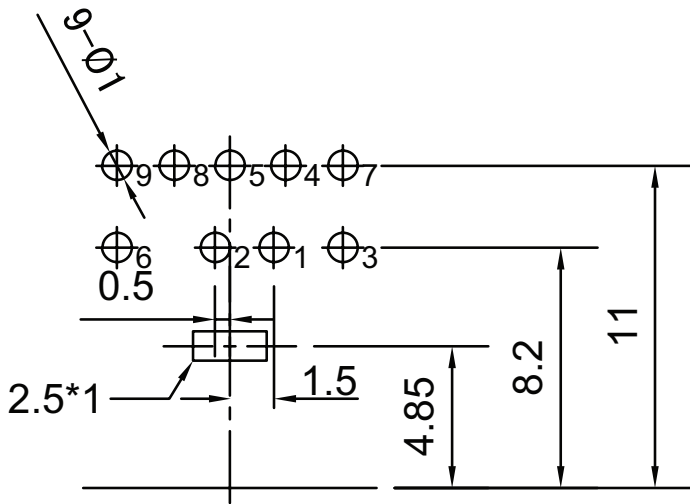
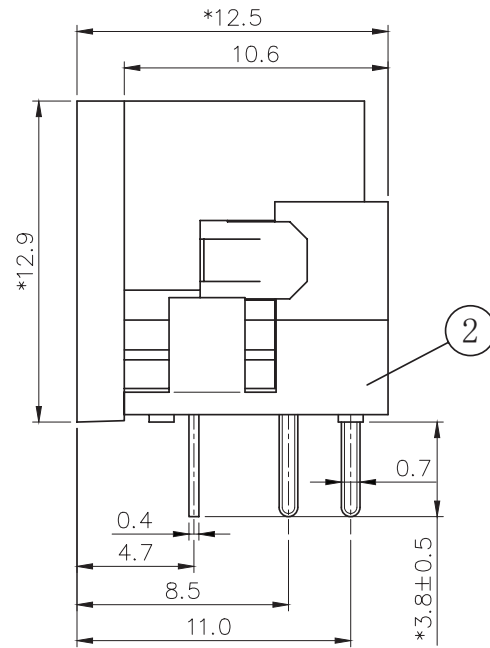
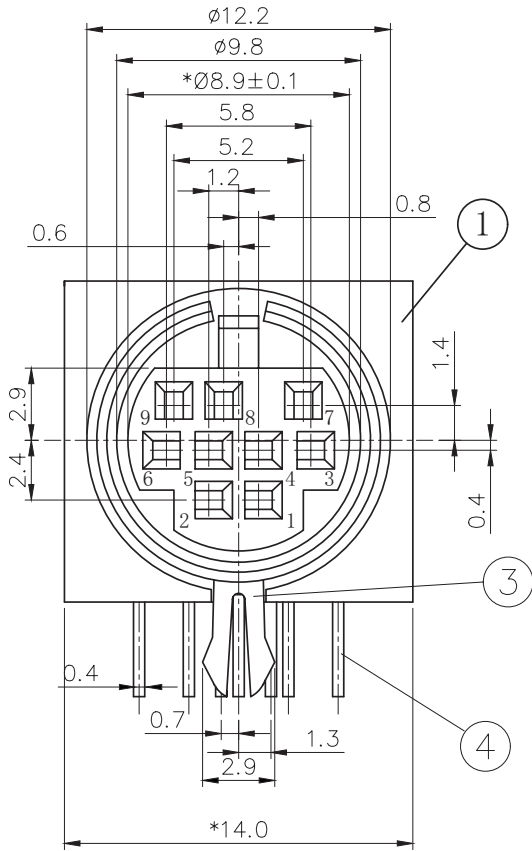
Recommended PCB Layout  
 Top View  
 [Date Codes after 03/03/2022]

Recommended PCB Layout  
 Top View  
 [Date Codes after 03/03/2022]

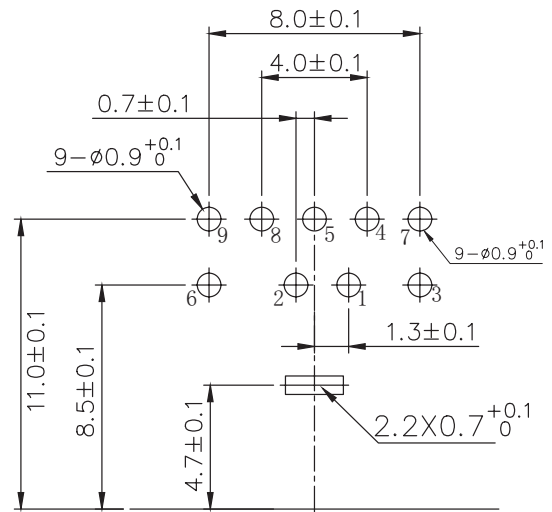
## MECHANICAL DRAWING (MD-90S)

units: mm  
 tolerance:  $\pm 0.3$  mm  
 PCB:  $\pm 0.1$  mm  
 unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	body	PBT (UL94V-0)	black
2	cover	PBT (UL94V-0)	black
3	earth terminal	brass	tin
4	terminals	phosphor bronze	silver



Recommended PCB Layout  
 Top View  
 [Date Codes prior to 03/03/2022]



Recommended PCB Layout  
 Top View  
 [Date Codes after 03/03/2022]

## REVISION HISTORY

rev.	description	date
1.0	initial release	02/23/2006
1.01	new template applied	02/16/2012
1.02	housing updates	03/29/2012
1.03	updated datasheet	08/25/2017
1.04	discontinued models MD-30S and MD-50S, brand update	10/08/2019
1.05	updated housing	12/12/2019
1.06	updated PCB footprints	09/01/2020
1.07	modified design, changed factory	02/18/2022
1.08	logo, datasheet style update	08/05/2022

The revision history provided is for informational purposes only and is believed to be accurate.



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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