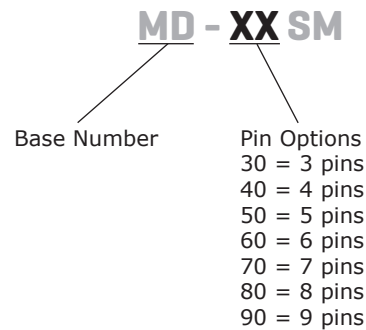


SERIES: MD-SM | **DESCRIPTION:** MINI DIN CONNECTOR**FEATURES**

- PCB mount
- right angle
- side shielded

**PART NUMBER KEY****SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated input voltage			30		Vdc
rated input current				1	A
contact resistance				30	mΩ
insulation resistance		1000			MΩ
voltage withstand	for 1 minute			500	Vac
insertion force				45	N
withdrawal force		7			N
operating temperature		-25		50	°C
life			500		cycles
flammability rating	UL94V-0				
RoHS	yes				

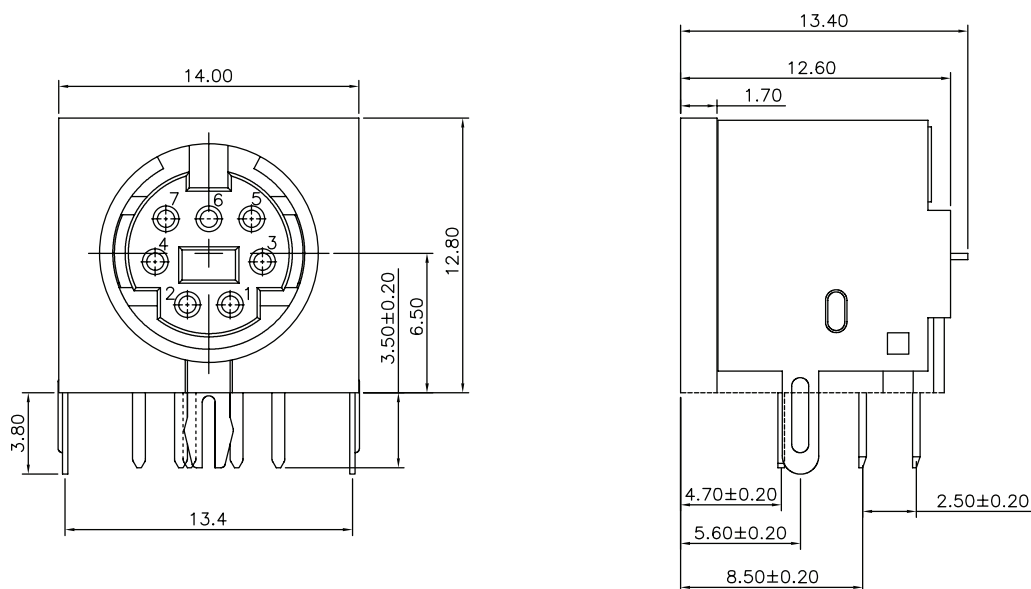
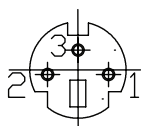
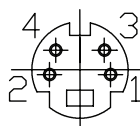
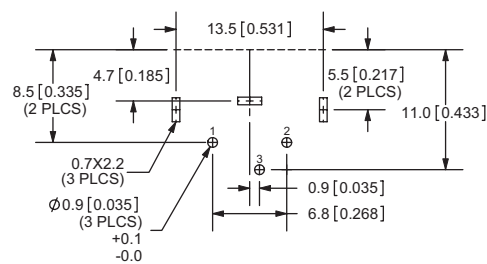
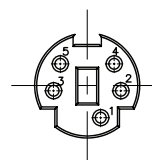
SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for 1~3 seconds	230		250	°C

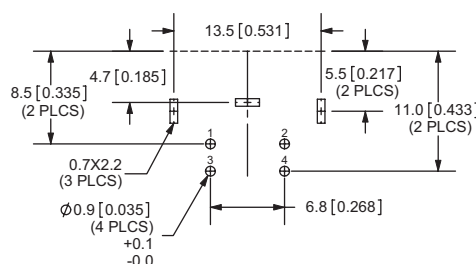
MECHANICAL DRAWING (MD-30SM, MD-40SM, MD-50SM)

units: mm
 tolerance:
 X.X ± 0.38 mm
 X.XX ± 0.25 mm
 X.XXX ± 0.13 mm

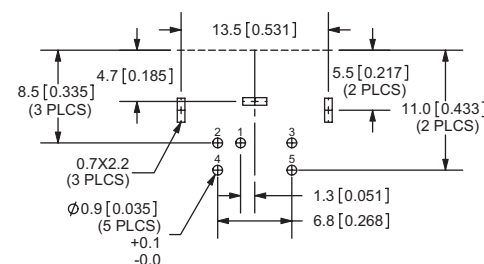
	MATERIAL	PLATING
body	PBT+30%GF (UL94V-0)	
pins	brass	tin
shield	brass	nickel

**MD-30SM****MD-40SM****MD-50SM**

Recommended PCB Layout
Top View



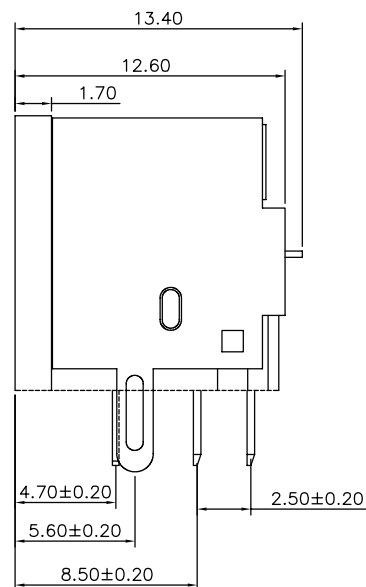
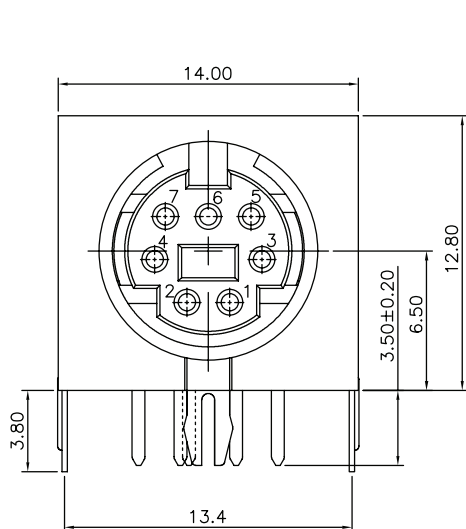
Recommended PCB Layout
Top View



Recommended PCB Layout
Top View

units: mm
tolerance:
X.X ± 0.38 mm
X.XX ± 0.25 mm
X.XXX ± 0.13 mm

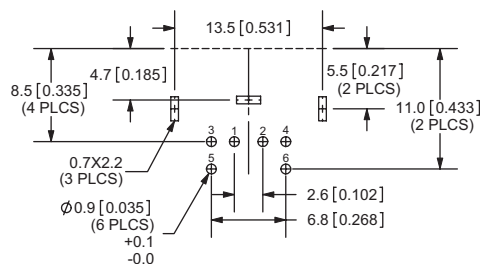
	MATERIAL	PLATING
body	PBT+ 30%GF (UL94V-0)	
pins	brass	tin
shield	brass	nickel



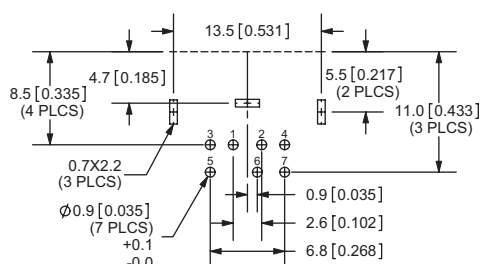
A diagram of a circular hole with six smaller holes inside. The holes are numbered 1 through 6. Holes 1 and 2 are at the bottom, 3 and 4 are on the sides, and 5 and 6 are at the top. The holes are arranged in a hexagonal pattern.

A diagram of a circular structure, possibly a cross-section of a biological specimen. It features seven numbered points (1-7) arranged around a central rectangular feature. The points are numbered as follows: 1 at the bottom center, 2 at the bottom left, 3 at the bottom right, 4 at the middle left, 5 at the middle right, 6 at the top center, and 7 at the top left. The central rectangular feature has a small vertical line segment in its center.

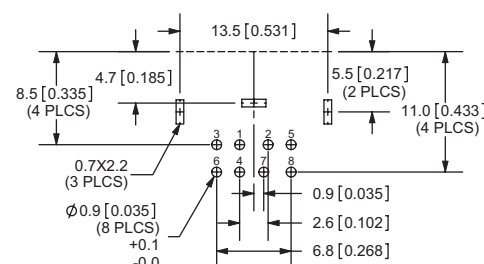
A circular board with a central cross. The board is divided into 8 numbered positions (1-8) arranged in a circle around the center. The positions are numbered 1 through 8, starting from the bottom and moving clockwise. The board is divided into 8 numbered positions (1-8) arranged in a circle around the center. The positions are numbered 1 through 8, starting from the bottom and moving clockwise. The board is divided into 8 numbered positions (1-8) arranged in a circle around the center. The positions are numbered 1 through 8, starting from the bottom and moving clockwise.



Recommended PCB Layout Top View



Recommended PCB Layout
Top View



Recommended PCB Layout Top View

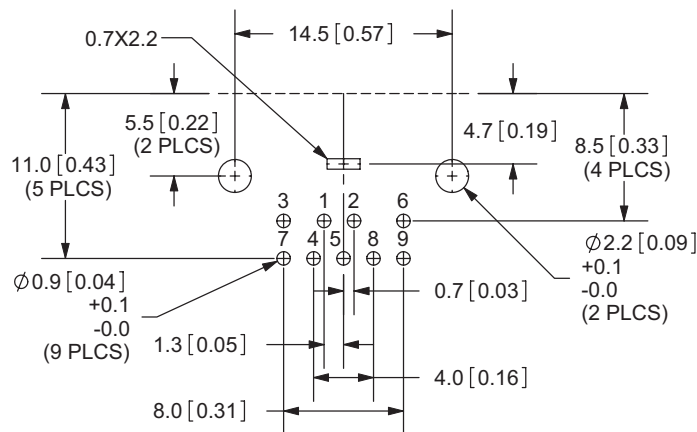
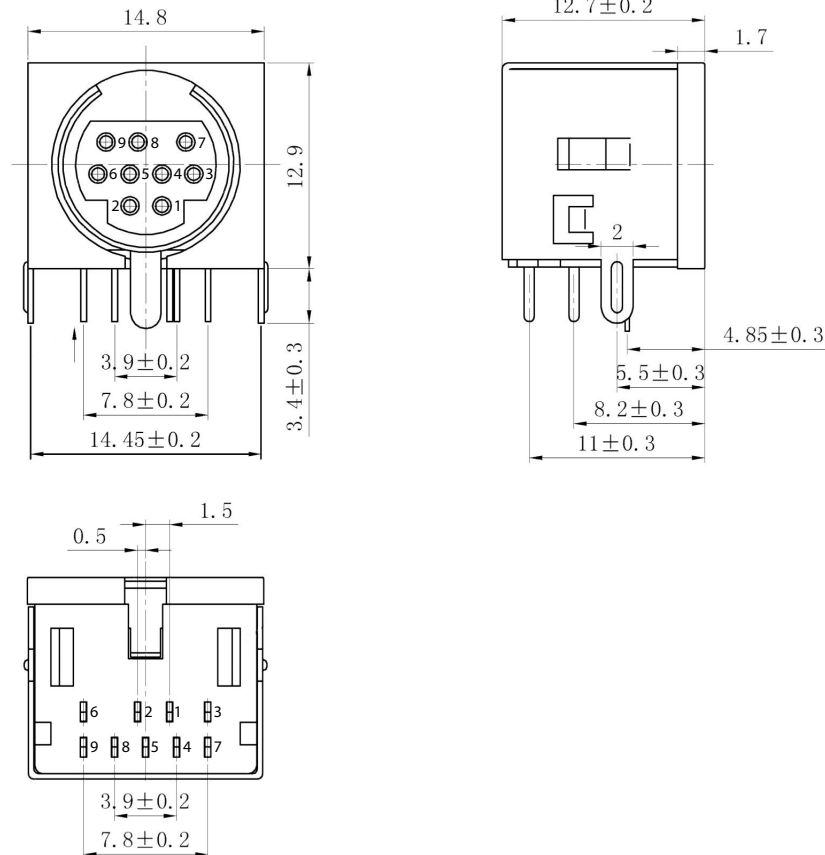
MECHANICAL DRAWING (MD-90SM)

units: mm

tolerance:

X.X ± 0.35 mmX.XX ± 0.25 mmX.XXX ± 0.15 mm

	MATERIAL	PLATING
body	PBT (UL94V-0)	
cover	PBT (UL94V-0)	
ground	brass	tin
pins	brass	tin
shield	brass	tin



Recommended PCB Layout
Top View

REVISION HISTORY

rev.	description	date
1.0	initial release	02/23/2006
1.01	new template applied	02/22/2012
1.02	updated datasheet	08/25/2017
1.03	added hand soldering details	01/19/2018
1.04	updated housing, brand update	11/21/2019

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

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