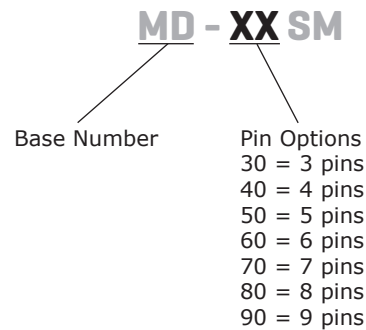


SERIES: MD-SM | **DESCRIPTION:** MINI DIN CONNECTOR**FEATURES**

- 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				

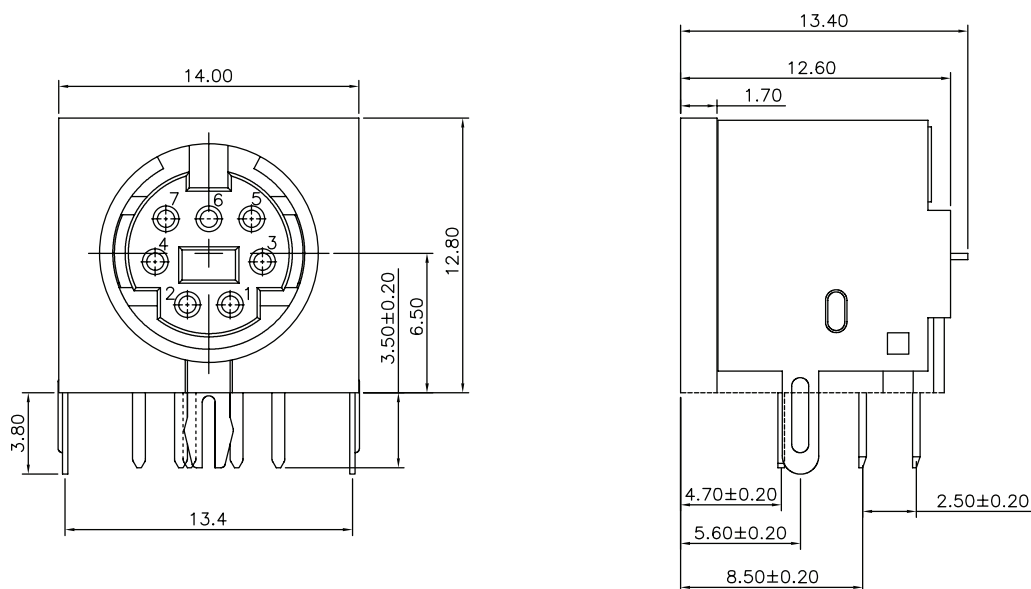
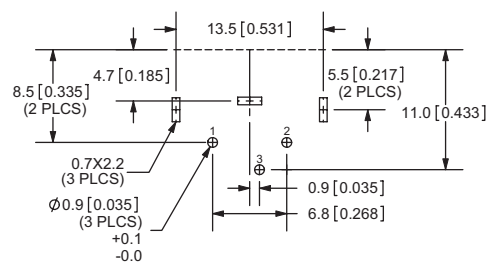
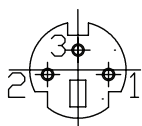
SOLDERABILITY

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

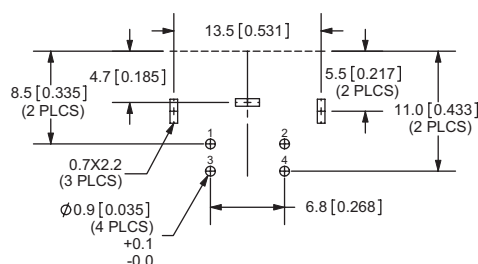
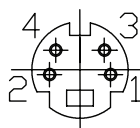
MECHANICAL DRAWING (MD-30SM, MD-40SM, MD-50SM)

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

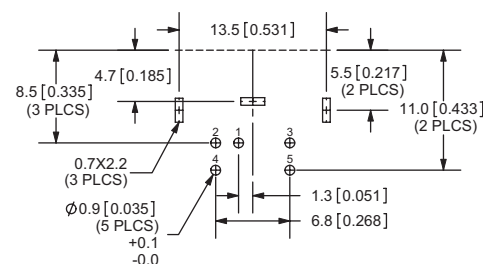
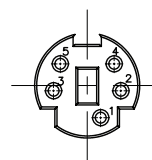
	MATERIAL	PLATING
body	PBT+30%GF (UL94V-0)	
pins	brass	tin
shield	brass	nickel

**MD-30SM**

Recommended PCB Layout
Top View

MD-40SM

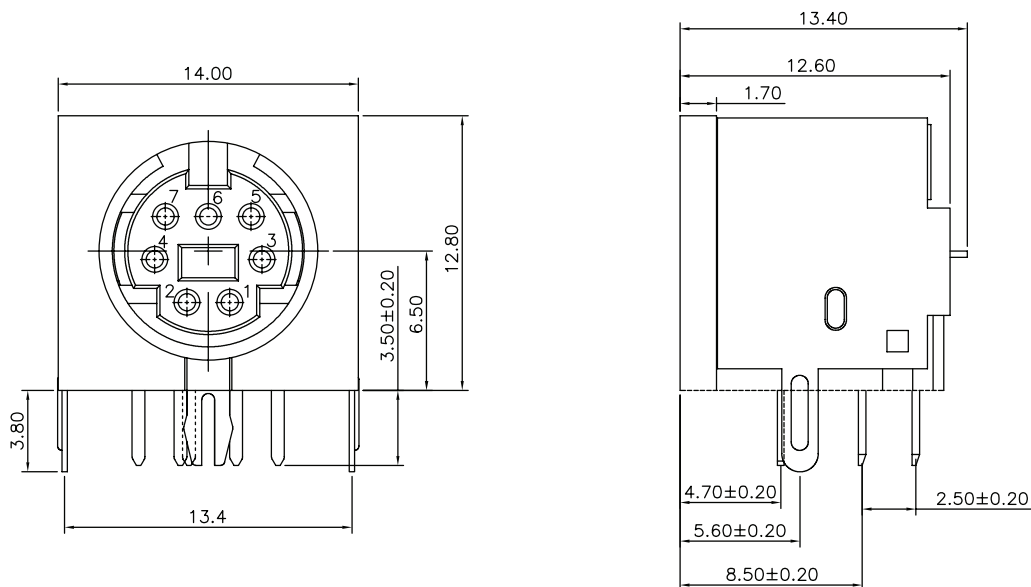
Recommended PCB Layout
Top View

MD-50SM

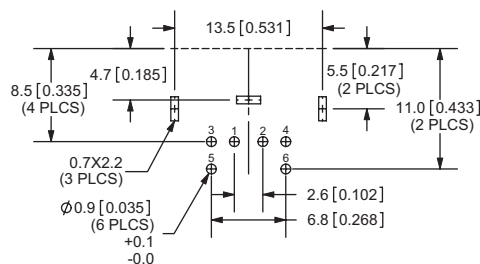
Recommended PCB Layout
Top View

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

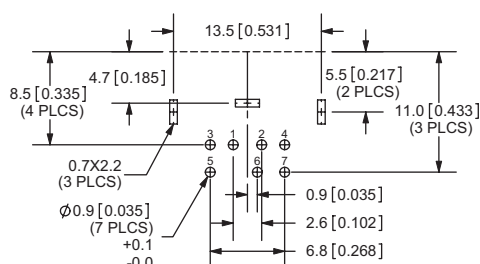
	MATERIAL	PLATING
body	PBT+ 30%GF (UL94V-0)	
pins	brass	tin
shield	brass	nickel



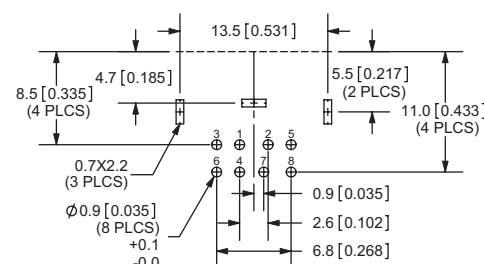
A circular board with a central cross. The board is divided into 8 numbered positions (1-8) by the cross and two additional lines. The positions are numbered as follows: 1 is at the bottom center, 2 is at the bottom left, 3 is at the bottom right, 4 is at the center, 5 is at the top left, 6 is at the top right, 7 is at the top center, and 8 is at the top left (above 5).



Recommended PCB Layout Top View



Recommended PCB Layout
Top View

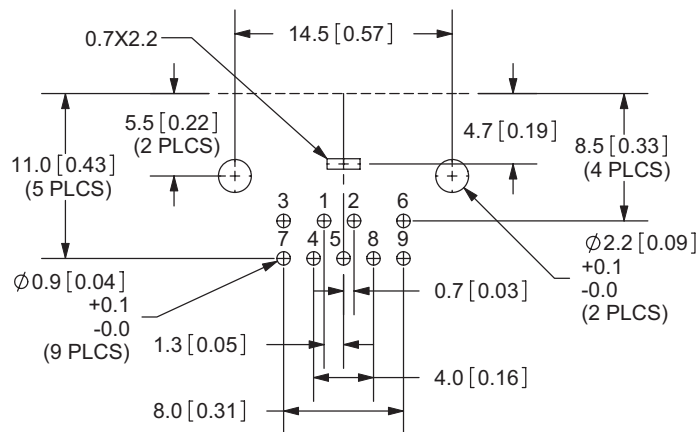
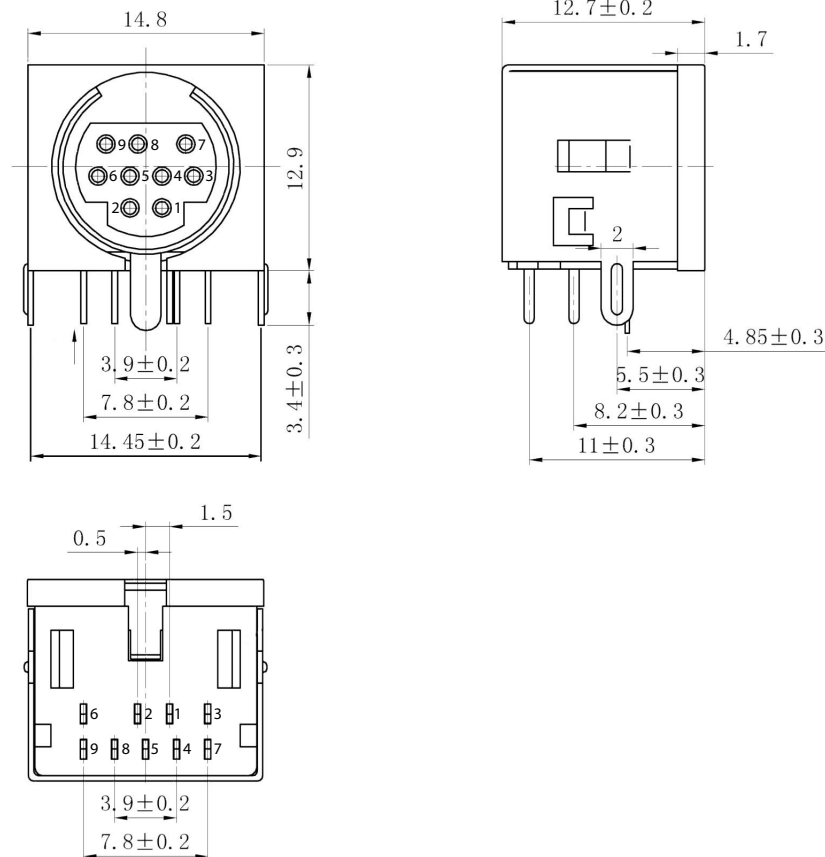


Recommended PCB Layout Top View

MECHANICAL DRAWING (MD-90SM)

units: mm
tolerance:
X.X ± 0.35 mm
X.XX ± 0.25 mm
X.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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