CUI DEVICES

SERIES: MD-SM | DESCRIPTION: MINI DIN CONNECTOR

FEATURES
- PCB mount
- right angle
- side shielded

RoHS

PART NUMBER KEY

MD - XX SM

Base Number

Pin Options
30 = 3 pins
40 = 4 pins
50 = 5 pins
60 = 6 pins
70 = 7 pins
80 = 8 pins
90 = 9 pins

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				

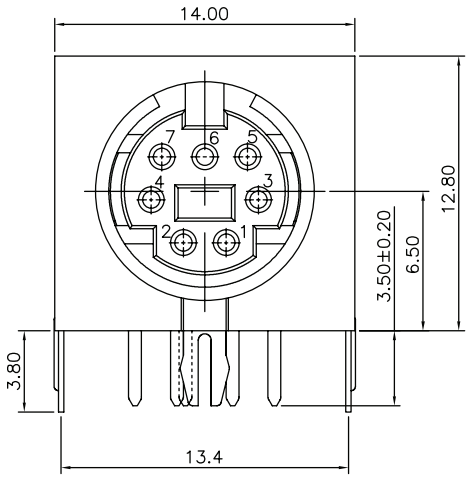
SOLDERABILITY

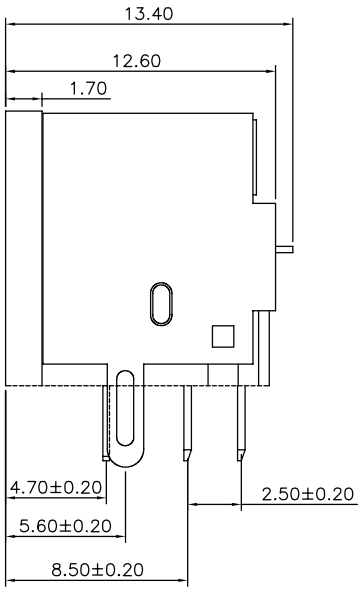
parameter	conditions/description	min	typ	max	units
hand soldering	for 1~3 seconds	230		250	°C

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

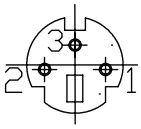
units: mm
tolerance:
X.X ±0.38 mm
X.XX ±0.25 mm
X.XXX ±0.13 mm

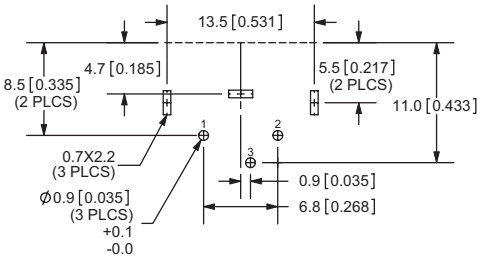
	MATERIAL	PLATING
body	PBT+30%GF (UL94V-0)	
pins	brass	tin
shield	brass	nickel





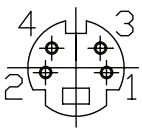
MD-30SM

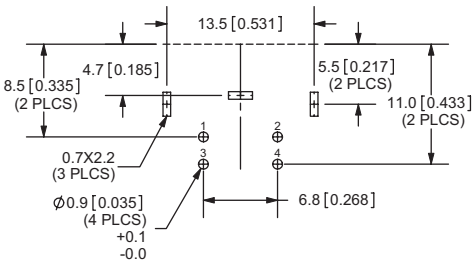




Recommended PCB Layout
Top View

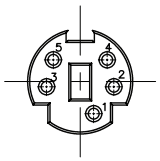
MD-40SM

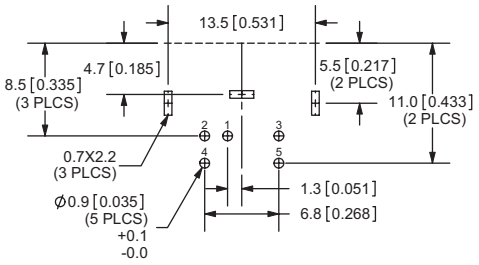




Recommended PCB Layout
Top View

MD-50SM



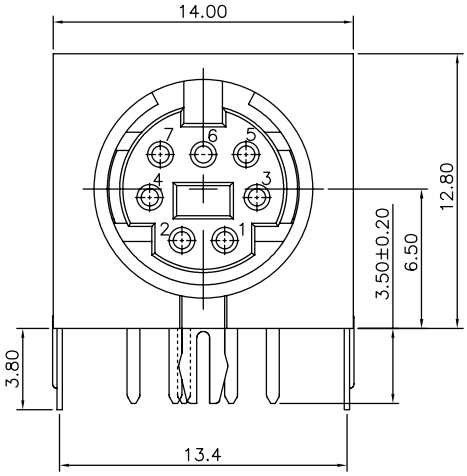


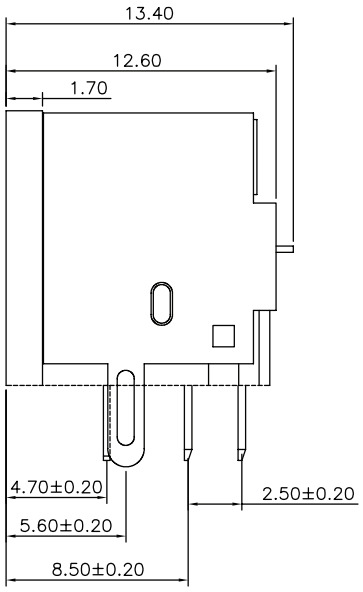
Recommended PCB Layout
Top View

MECHANICAL DRAWING (MD-60SM, MD-70SM, MD-80SM)

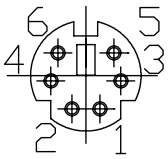
units: mm
tolerance:
X.X ±0.38 mm
X.XX ±0.25 mm
X.XXX ±0.13 mm

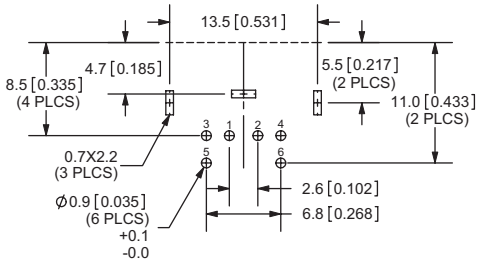
	MATERIAL	PLATING
body	PBT+30%GF (UL94V-0)	
pins	brass	tin
shield	brass	nickel





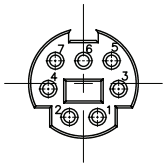
MD-60SM

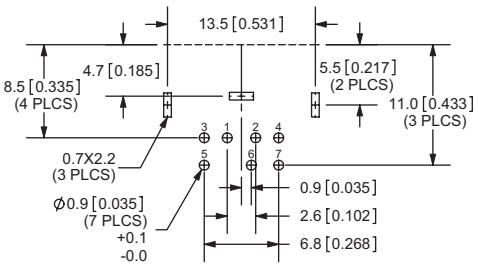




Recommended PCB Layout
Top View

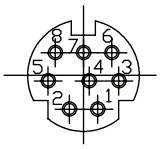
MD-70SM

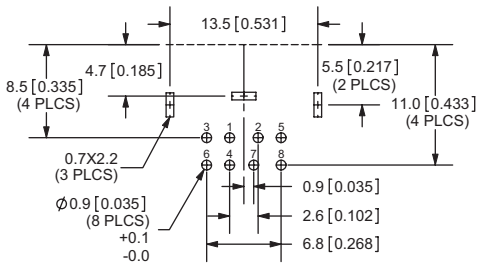




Recommended PCB Layout
Top View

MD-80SM



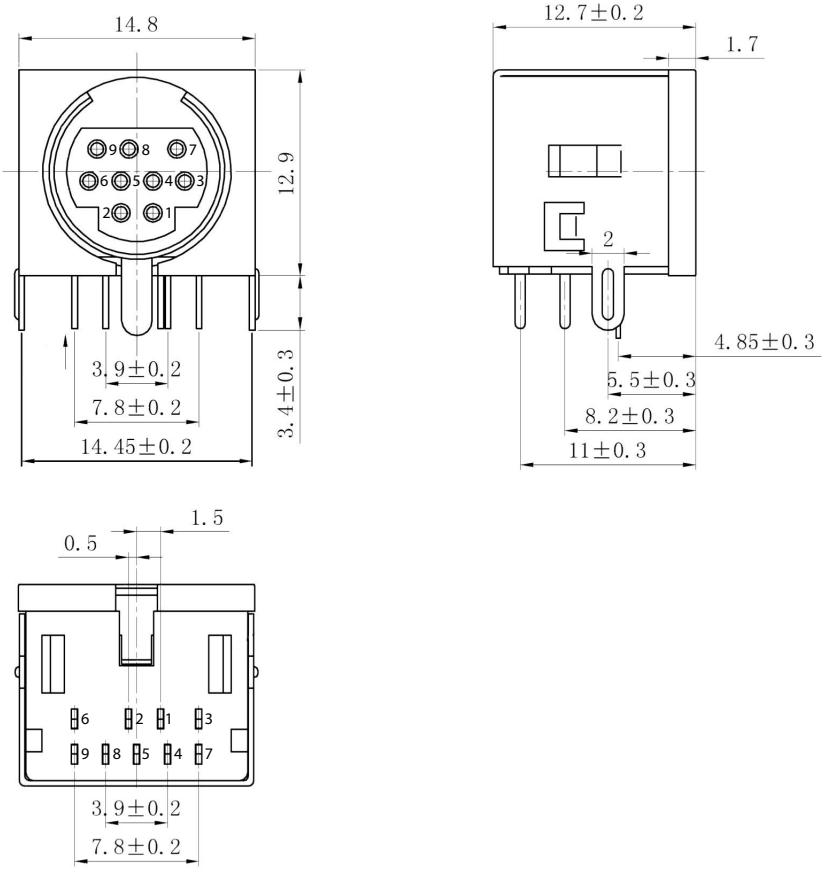


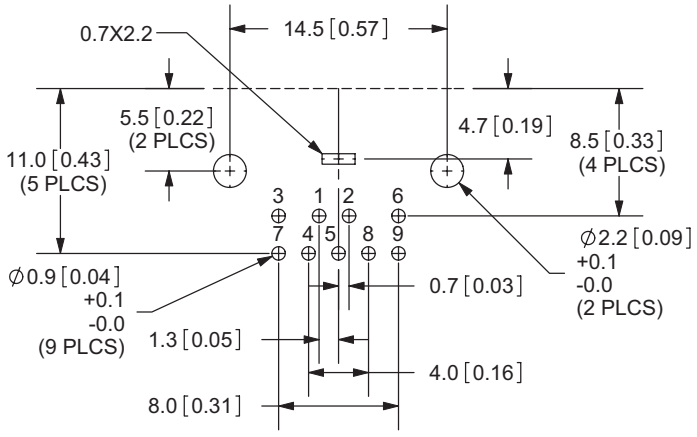
Recommended PCB Layout
Top View

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.