SERIES: MD-S | DESCRIPTION: MINI DIN CONNECTOR

FEATURES

- PCB mount
- right angle
- non-shielded

RoHS

PART NUMBER KEY

MD - XX S

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

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				

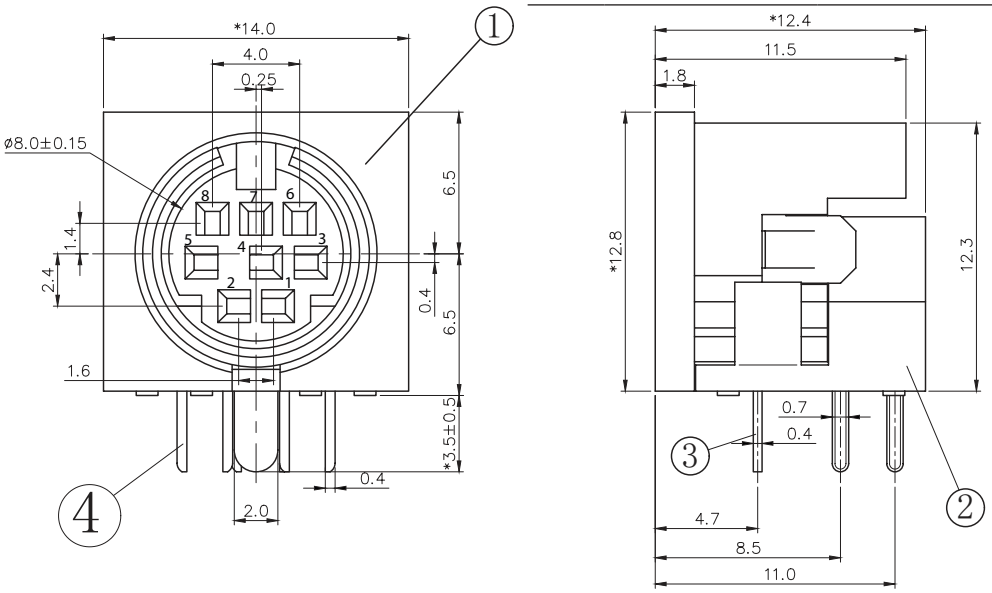
SOLDERABILITY

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

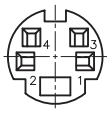
MECHANICAL DRAWINGS (MD-30S, MD-40S, MD-50S)

units: mm
tolerance: ±0.3 mm
PCB: ±0.1 mm
unless otherwise noted

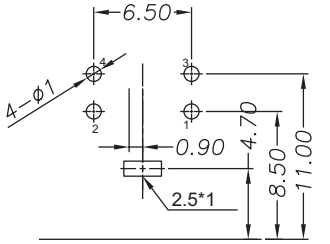
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	body	PBT (UL94V-0)	black
2	cover	PBT (UL94V-0)	black
3	earth terminal	brass	tin
4	terminals	phosphor bronze	silver

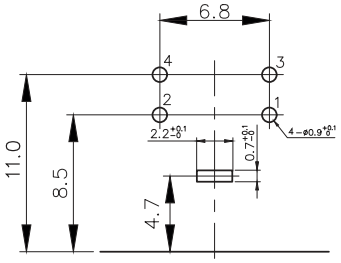


MD-40S



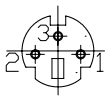
Recommended PCB Layout
Top View
(Date Codes prior to 03/03/2022)

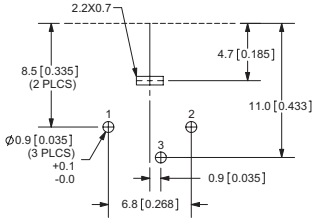




Recommended PCB Layout
Top View
(Date Codes after 03/03/2022)

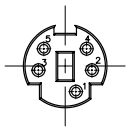
MD-30S

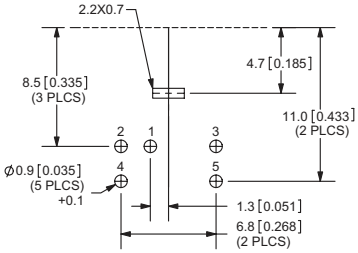




Recommended PCB Layout
Top View

MD-50S



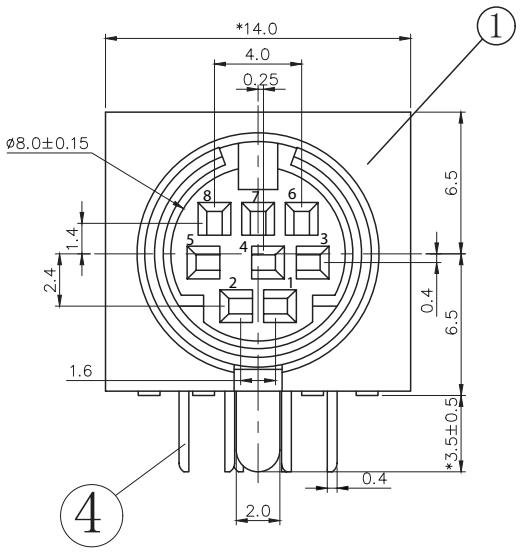


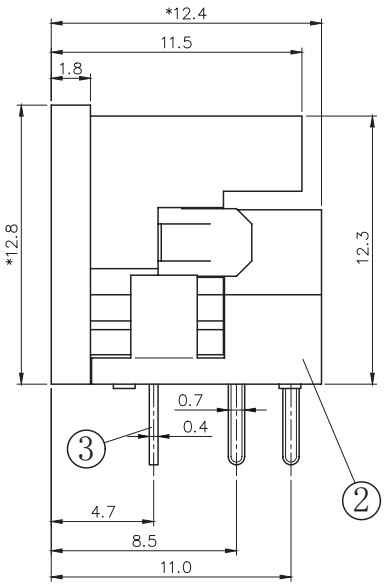
Recommended PCB Layout
Top View

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

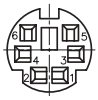
units: mm
tolerance: ±0.3 mm
PCB: ±0.1 mm
unless otherwise noted

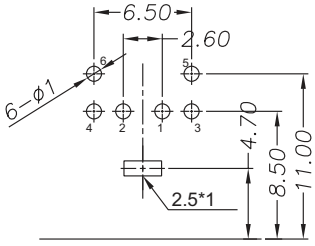
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	body	PBT (UL94V-0)	black
2	cover	PBT (UL94V-0)	black
3	earth terminal	brass	tin
4	terminals	phosphor bronze	silver



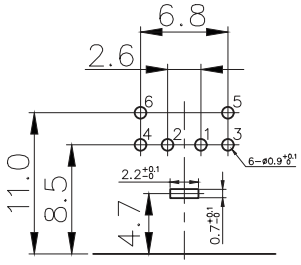


MD-60S



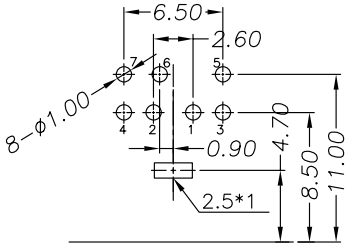


Recommended PCB Layout
Top View
(Date Codes prior to 03/03/2022)

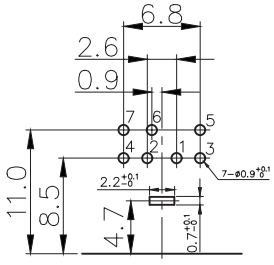


Recommended PCB Layout
Top View
(Date Codes after 03/03/2022)

MD-70S

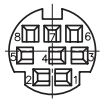


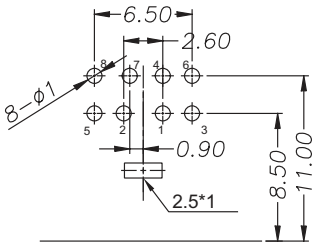
Recommended PCB Layout
Top View
(Date Codes prior to 03/03/2022)



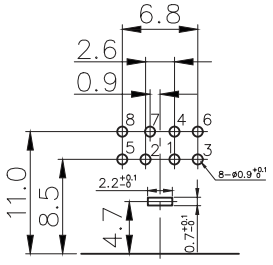
Recommended PCB Layout
Top View
(Date Codes after 03/03/2022)

MD-80S





Recommended PCB Layout
Top View
(Date Codes prior to 03/03/2022)

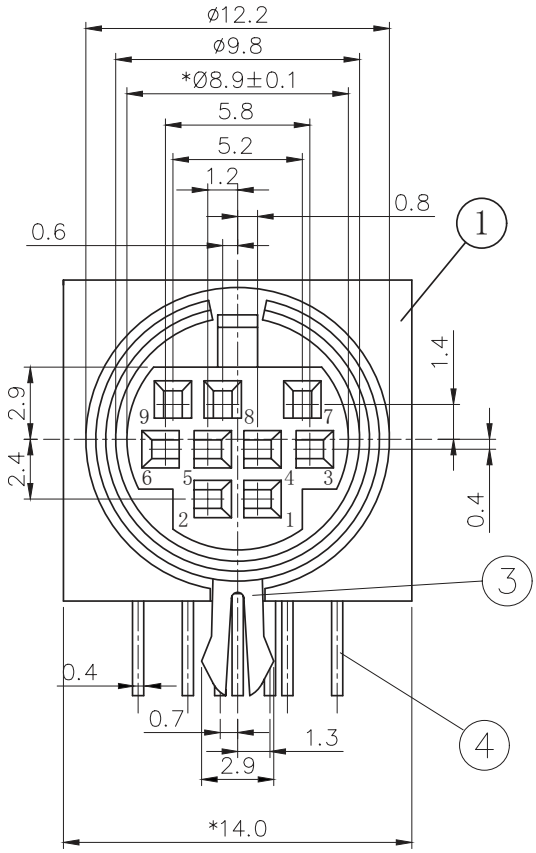


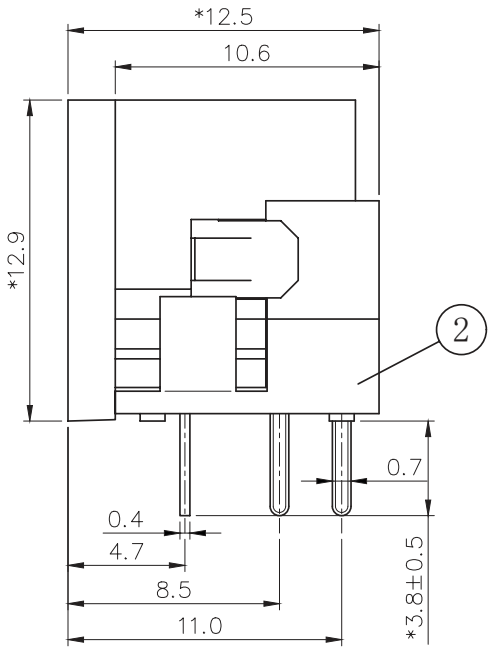
Recommended PCB Layout
Top View
(Date Codes after 03/03/2022)

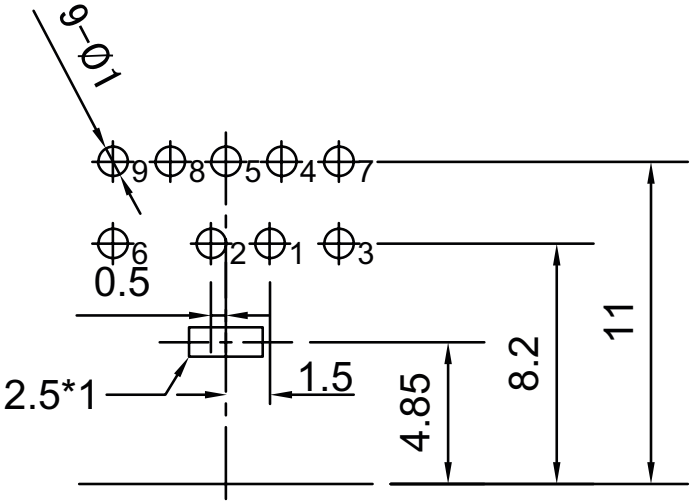
MECHANICAL DRAWING (MD-90S)

units: mm
tolerance: ±0.3 mm
PCB: ±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
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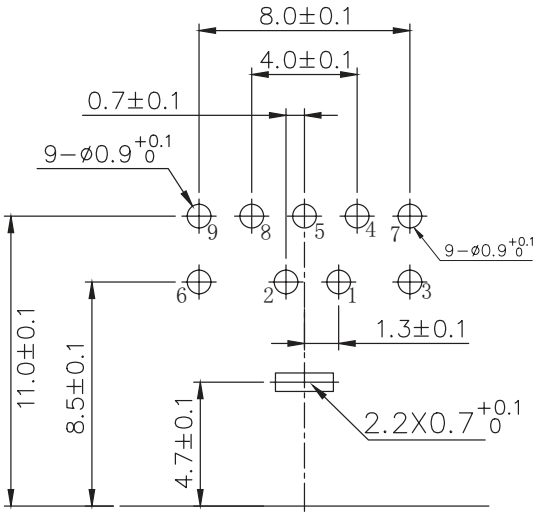

Recommended PCB Layout
Top View
(Date Codes after 03/03/2022)

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.