CUI DEVICES

date 11/21/2019

page 1 of 5

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

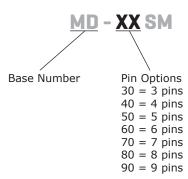
FEATURES

- 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	А
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				

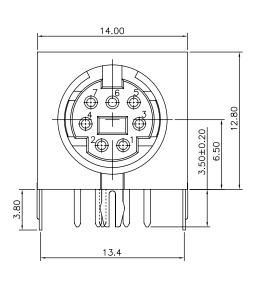
SOLDERABILITY

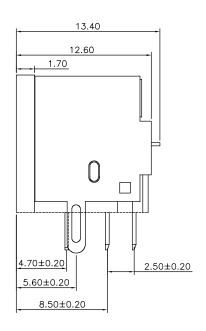
parameter conditions/description		min typ		max	units
hand soldering	for 1~3 seconds	230		250	°C

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









13.5 [0.531]

4.7 [0.185]

+0.1 -0.0

8.5[0,335]

0.7X2.2 (3 PLCS)

Ø0.9[0.035]

5.5 [0.217]

(2 PLCS)

0.9[0.035]

6.8 [0.268]

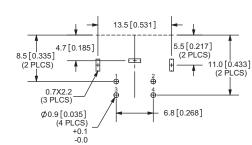
11.0 [0.433]

MD-40SM



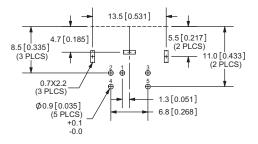
5

MD-50SM



Recommended PCB Layout Top View

Recommended PCB Layout Top View

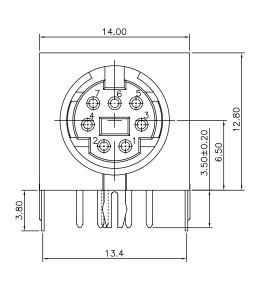


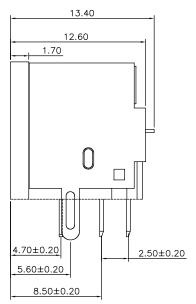
Recommended PCB Layout Top View

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

units: mm tolerance: $X.X \pm 0.38 \text{ mm}$ $X.XX \pm 0.25 \text{ mm}$ $X.XXX \pm 0.13 \text{ mm}$

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







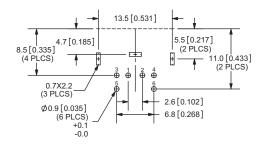


MD-70SM

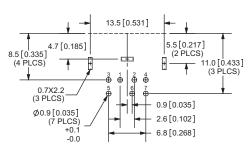


MD-80SM

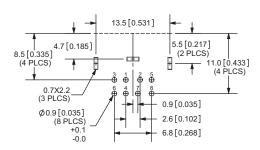




Recommended PCB Layout Top View



Recommended PCB Layout Top View

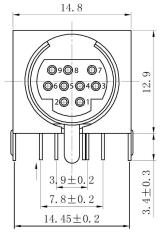


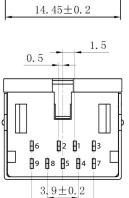
Recommended PCB Layout Top View

MECHANICAL DRAWING (MD-90SM)

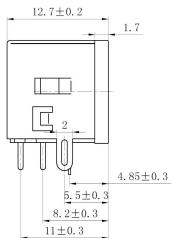
units: mm tolerance: X.X ± 0.35 mm X.XX ± 0.25 mm X.XXX ± 0.15 mm

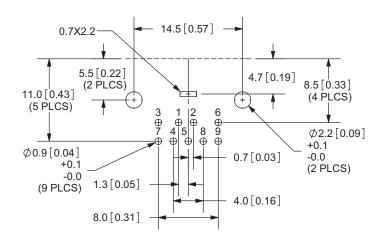
	MATERIAL	PLATING
body	PBT (UL94V-0)	
cover	PBT (UL94V-0)	
ground	brass	tin
pins	brass	tin
shield	brass	tin
12.7 \pm 0.2	1 7	





 7.8 ± 0.2





Recommended PCB Layout Top View

Additional Resources: Product Page | PCB Footprint

CUI Devices | SERIES: MD-SM | DESCRIPTION: MINI DIN CONNECTOR date 11/21/2019 | page 5 of 5

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.

CUI DEVICES

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

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