

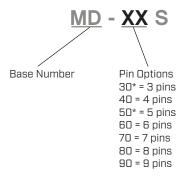
SERIES: MD-S | DESCRIPTION: MINI DIN CONNECTOR

FEATURES

- PCB mount
- right angle
- non-shielded



PART NUMBER KEY



Notes: *Discontinued models MD-30S & MD-50S

SPECIFICATIONS

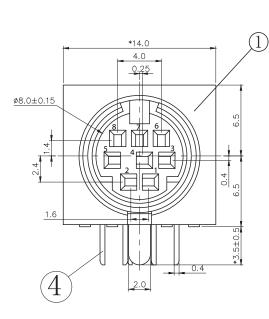
| parameter | conditions/description | min | typ | max | units |
|-----------------------|-------------------------|-----|-----------|--------|------------|
| rated input voltage | | | 100 12 | | Vac Vdc |
| rated input current | at 100 Vac at 12 Vdc | | | 1 2 | A A |
| contact resistance | | | | 30 | 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 . | | | | |

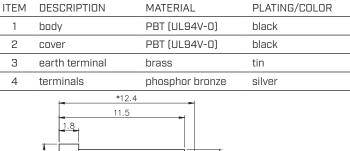
SOLDERABILITY

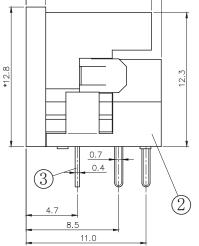
| parameter | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| wave soldering | for 10 seconds max | 235 | | 260 | °C |
| hand soldering | for 5±1 seconds | 240 | 245 | 250 | °C |
| | | 2.0 | 2.0 | | |

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

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



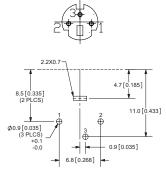




<u>MD-40S</u>

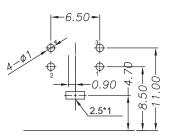


MD-30S

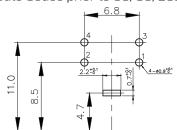


Recommended PCB Layout Top View

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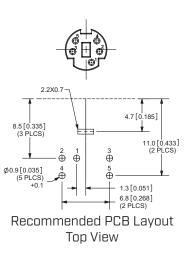


Recommended PCB Layout Top View (Date Codes prior to 03/03/2022)



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

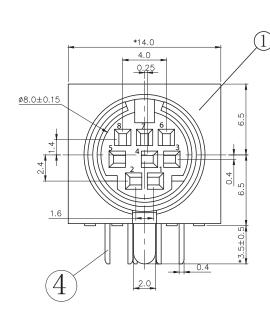


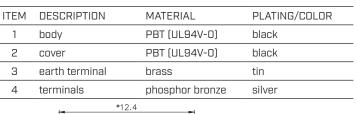


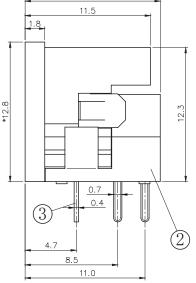
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MECHANICAL DRAWINGS (MD-60S, MD-70S, MD-80S)

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

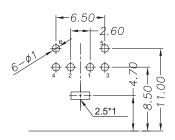




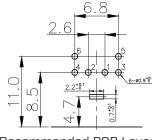


<u>MD-60S</u>





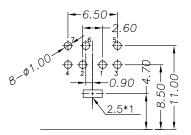
Recommended PCB Layout Top View (Date Codes prior to 03/03/2022)



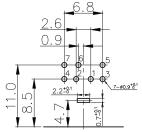
Recommended PCB Layout Top View (Date Codes after 03/03/2022) <u>MD-70S</u>

<u>MD-80S</u>



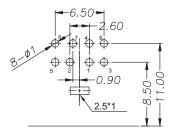


Recommended PCB Layout Top View (Date Codes prior to 03/03/2022)

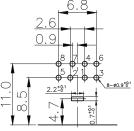


Recommended PCB Layout Top View (Date Codes after 03/03/2022)





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

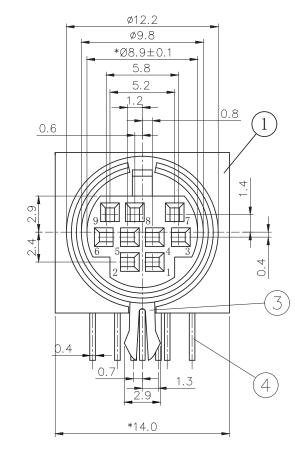


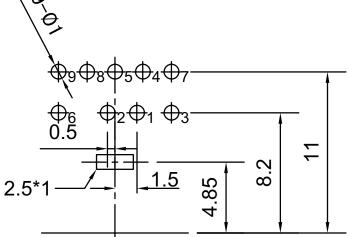
Recommended PCB Layout Top View (Date Codes after 03/03/2022)

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MECHANICAL DRAWING (MD-90S)

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

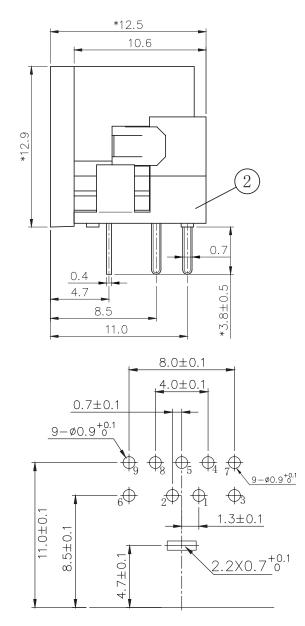




Recommended PCB Layout Top View (Date Codes prior to 03/03/2022)

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| 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 (Date Codes after 03/03/2022)

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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.

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