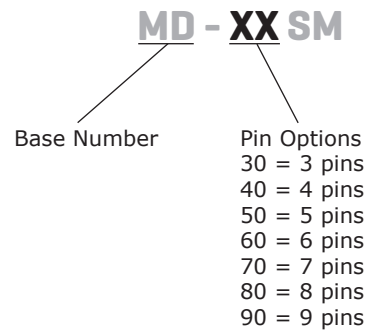


**SERIES:** MD-SM | **DESCRIPTION:** MINI DIN CONNECTOR
**FEATURES**

- PCB mount
- right angle
- side shielded

**PART NUMBER KEY****SPECIFICATIONS**

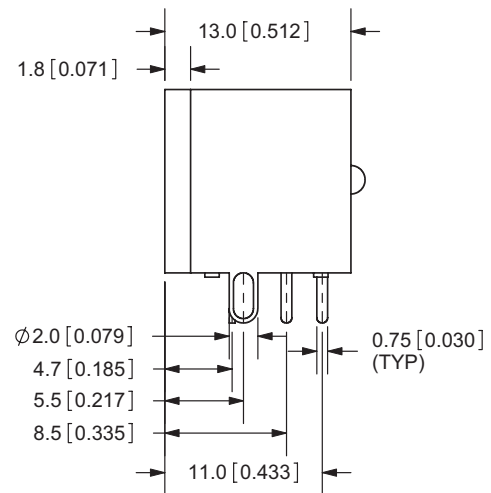
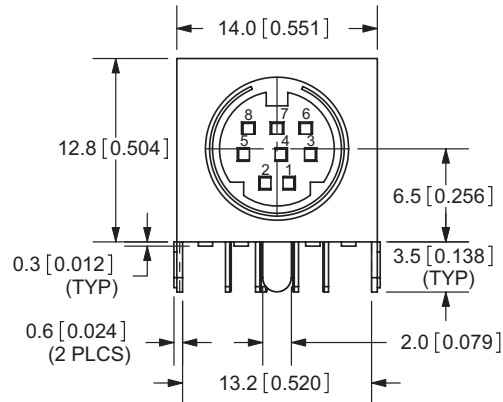
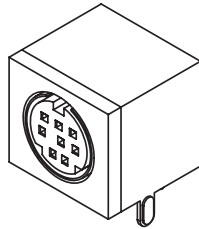
| parameter             | conditions/description  | min | typ       | max    | units      |
|-----------------------|-------------------------|-----|-----------|--------|------------|
| rated input voltage   |                         |     | 100<br>12 |        | Vac<br>Vdc |
| rated input current   | at 100 Vac<br>at 12 Vdc |     |           | 1<br>2 | A<br>A     |
| contact resistance    |                         |     |           | 30     | mΩ         |
| insulation resistance | at 250 Vdc              | 50  |           |        | MΩ         |
| voltage withstand     | for 1 minute            |     |           | 250    | Vac        |
| insertion force       |                         | 1   |           | 5      | kg         |
| withdrawal force      |                         | 0.8 |           | 3.5    | kg         |
| operating temperature |                         | -40 |           | 85     | °C         |
| life                  |                         |     | 1,000     |        | cycles     |
| flammability rating   | UL94V-0                 |     |           |        |            |
| RoHS                  | 2011/65/EU              |     |           |        |            |

**SOLDERABILITY**

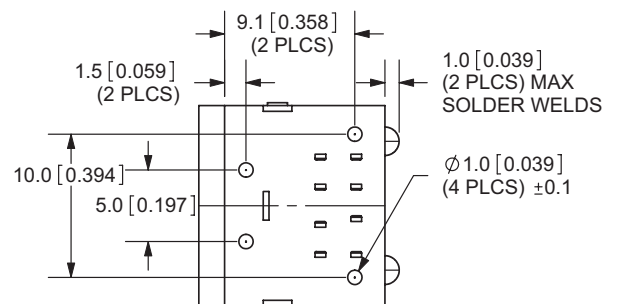
| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| hand soldering | for 5 ± 1 seconds      | 240 | 245 | 250 | °C    |

## MECHANICAL DRAWINGS

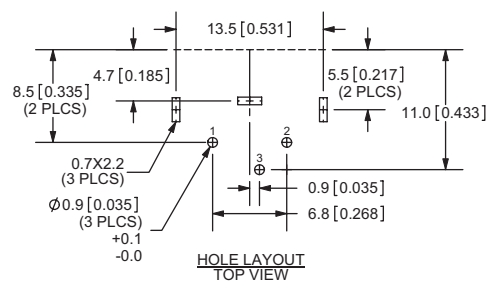
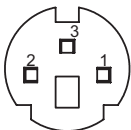
units: mm[inches]

TOLERANCE:  $\pm 0.2$ mm

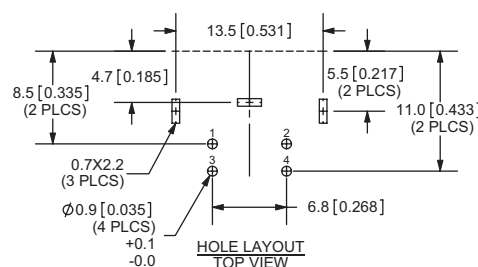
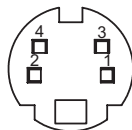
|                         | MATERIAL        | PLATING |
|-------------------------|-----------------|---------|
| earth terminal          | brass           | tin     |
| contact terminals (1~9) | phosphor bronze | silver  |
| shielding plate         | steel           | tin     |
| housing                 | PBT             |         |



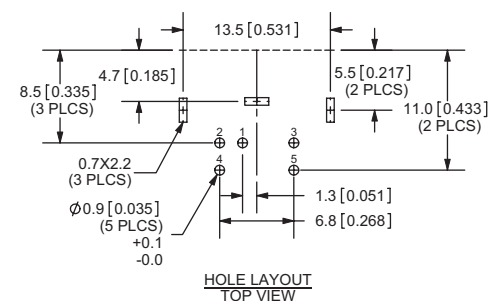
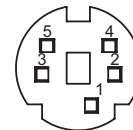
### MD-30SM



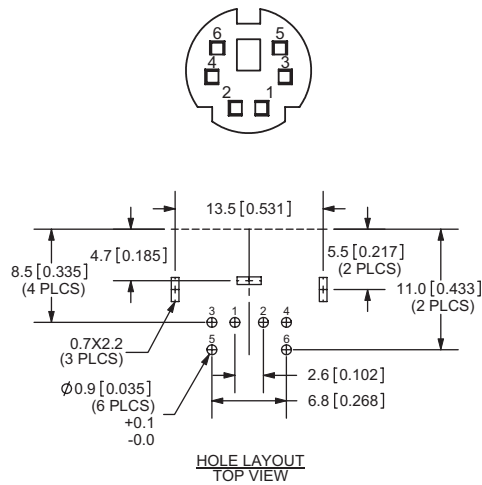
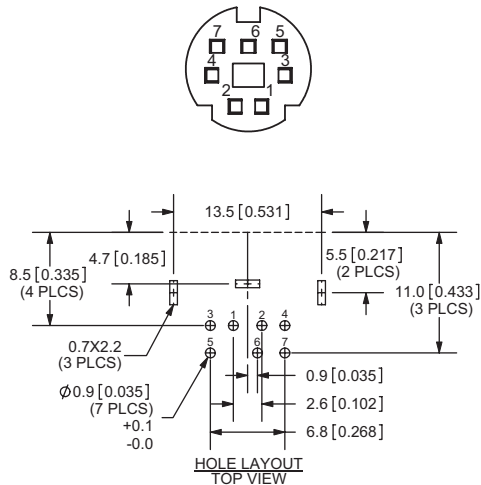
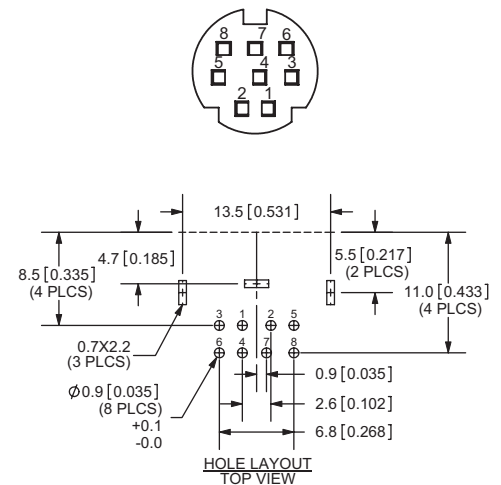
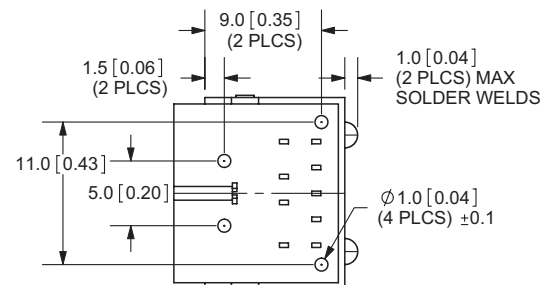
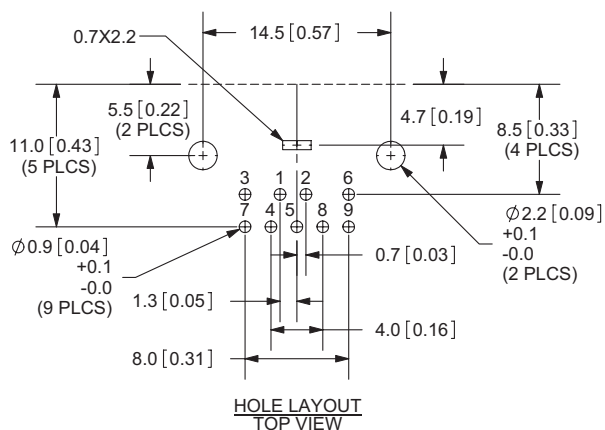
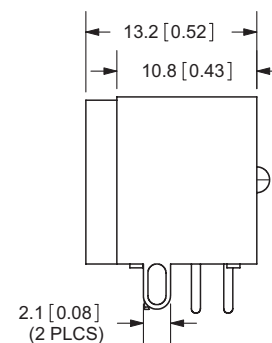
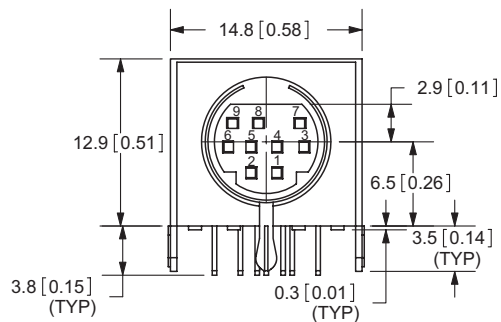
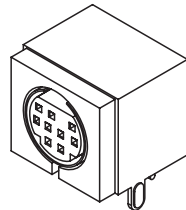
### MD-40SM



### MD-50SM



## MECHANICAL DRAWINGS (CONTINUED)

**MD-60SM****MD-70SM****MD-80SM****MD-90SM**

## 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 |

The revision history provided is for informational purposes only and is believed to be accurate.



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