

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

**FEATURES**

- PCB mount
- fully shielded
- right angle
- ground tabs with kinked pins


**PART NUMBER KEY**
**MD - XX SGK**

Base Number

Pin Options

30 = 3 pins

40 = 4 pins

50 = 5 pins

60 = 6 pins

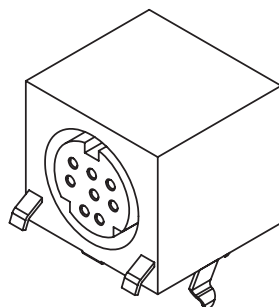
80 = 8 pins

**SPECIFICATIONS**

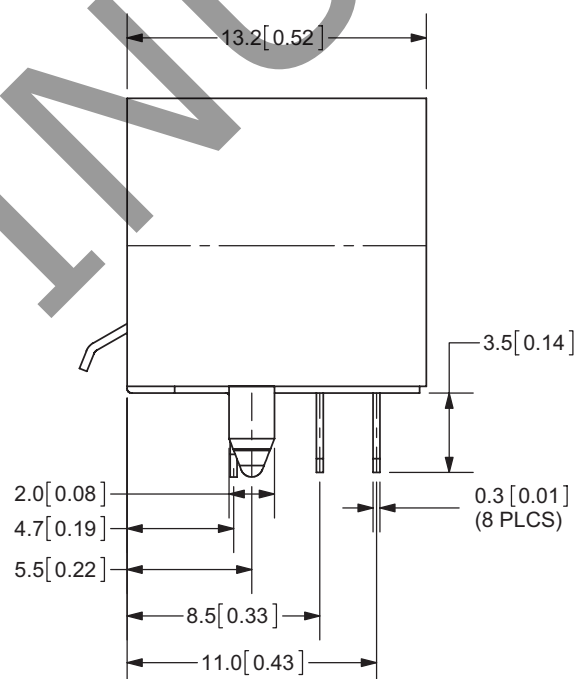
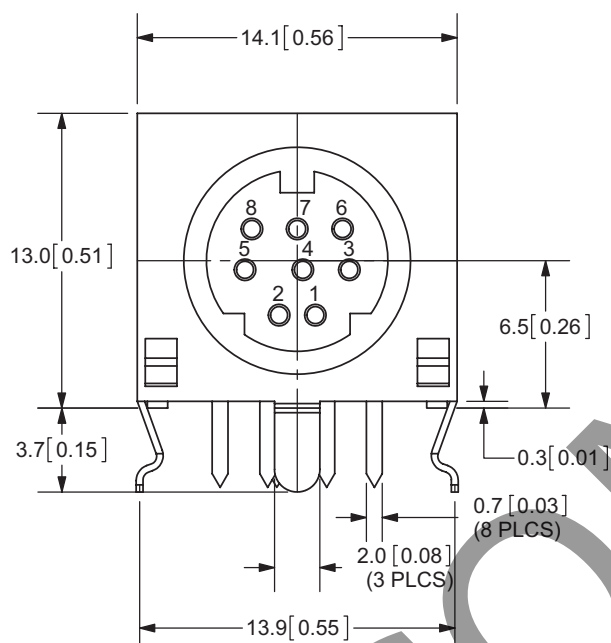
| parameter             | conditions/description  | min | typ       | max    | units      |
|-----------------------|-------------------------|-----|-----------|--------|------------|
| rated input voltage   |                         |     | 100<br>12 |        | Vac<br>Vdc |
| rated input current   | 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   |           | 4.5    | kg         |
| withdrawal force      |                         | 0.8 |           | 3      | kg         |
| operating temperature |                         | -40 |           | 85     | °C         |
| life                  |                         |     | 1,000     |        | cycles     |
| flammability rating   | UL94V-0                 |     |           |        |            |
| RoHS                  | 2011/65/EU              |     |           |        |            |

## MECHANICAL DRAWINGS

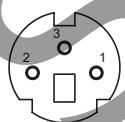
units: mm[inches]

TOLERANCE:  $\pm 0.2$ mm

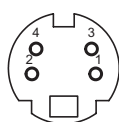
|                         | MATERIAL        | PLATING |
|-------------------------|-----------------|---------|
| earth terminal          | brass           | tin     |
| contact terminals (1~8) | phosphor bronze | silver  |
| plastic                 | PBT             |         |



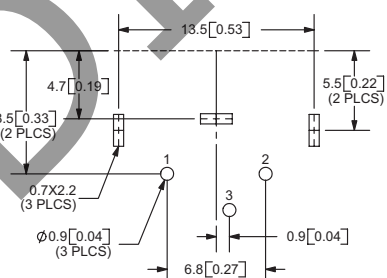
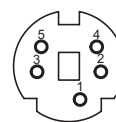
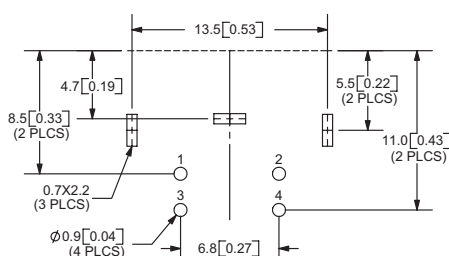
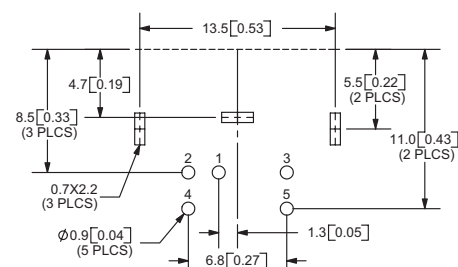
MD-30SGK

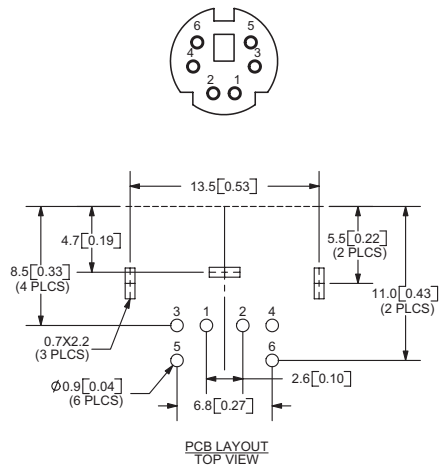
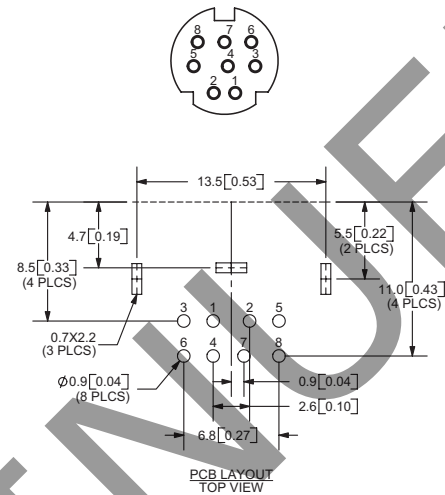


MD-40SGK



MD-50SGK

PCB LAYOUT  
TOP VIEWPCB LAYOUT  
TOP VIEWPCB LAYOUT  
TOP VIEW

**MECHANICAL DRAWINGS (CONTINUED)****MD-60SGK****MD-80SGK**

## REVISION HISTORY

| rev. | description            | date       |
|------|------------------------|------------|
| 1.0  | initial release        | 02/23/2006 |
| 1.01 | new template applied   | 02/22/2012 |
| 1.02 | updated pin dimensions | 03/07/2012 |
| 1.03 | updated datasheet      | 08/25/2017 |

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



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