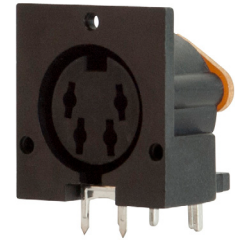
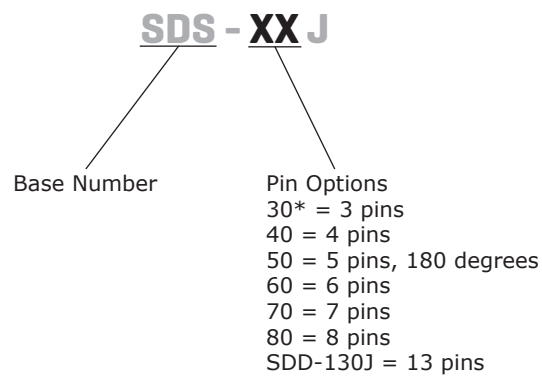


**SERIES:** SDS-J | **DESCRIPTION:** STANDARD DIN CONNECTOR**FEATURES**

- PCB mount
- right angle orientation
- 3~8, 13 pins

**PART NUMBER KEY**

Notes:     \*Discontinued model SDS-30J

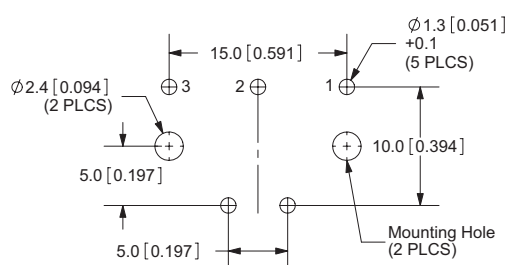
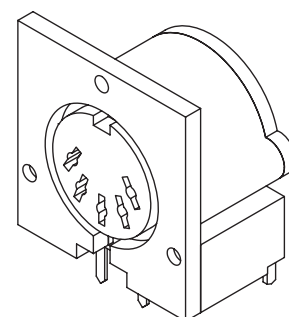
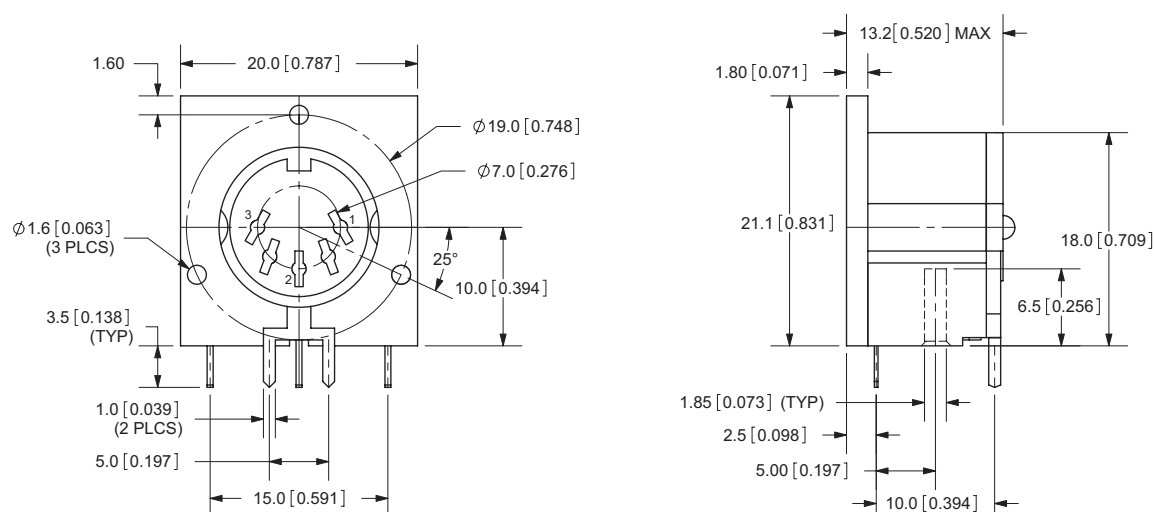
**SPECIFICATIONS**

| parameter             | conditions/description  | min | typ       | max | units      |
|-----------------------|-------------------------|-----|-----------|-----|------------|
| rated input voltage   |                         |     | 100<br>24 |     | Vac<br>Vdc |
| rated input current   | at 100 Vac<br>at 24 Vdc |     | 2<br>1    |     | A<br>A     |
| contact resistance    |                         |     |           | 30  | mΩ         |
| insulation resistance | at 250 Vdc              | 50  |           |     | MΩ         |
| voltage withstand     | for 1 minute            |     |           | 250 | Vac        |
| insertion force       |                         |     |           | 6.5 | kg         |
| withdrawal force      |                         | 0.5 |           | 5   | kg         |
| operating temperature |                         | -40 |           | 85  | °C         |
| storage temperature   |                         | -40 |           | 85  | °C         |
| life                  |                         |     | 1,000     |     | cycles     |
| flammability rating   | UL94V-0                 |     |           |     |            |
| RoHS                  | yes                     |     |           |     |            |

**MECHANICAL DRAWING (SDS-30J)**

units: mm  
tolerance:  $\pm 0.2$  mm

| DESCRIPTION       | MATERIAL        | PLATING/COLOR |
|-------------------|-----------------|---------------|
| earth terminal    | phosphor bronze | tin           |
| contact terminals | brass           | tin           |
| plate             | bakelite        |               |
| plastic           | PBT             |               |

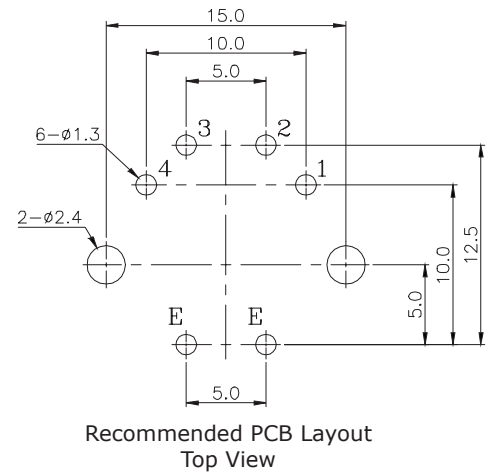
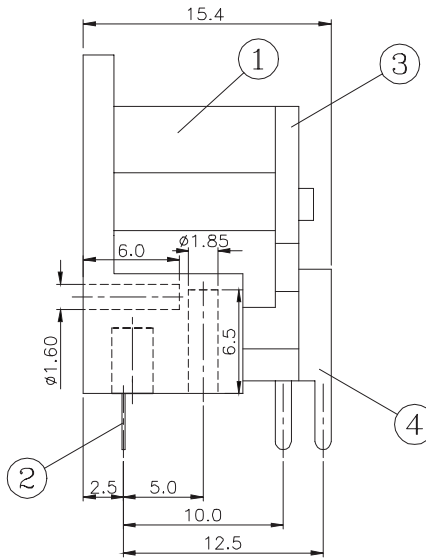
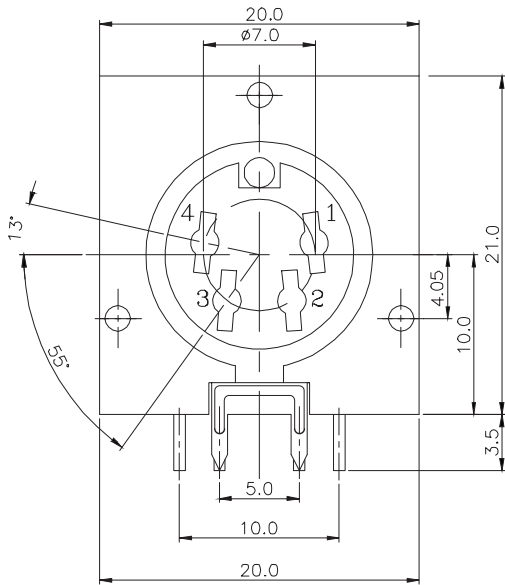


Recommended PCB Layout  
Top View

## **MECHANICAL DRAWING (SDS-40J)**

units: mm  
tolerance:  $\pm 0.3$  mm  
PCB tolerance:  $\pm 0.05$  mm

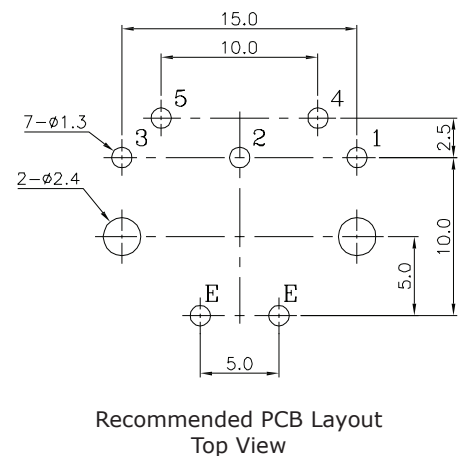
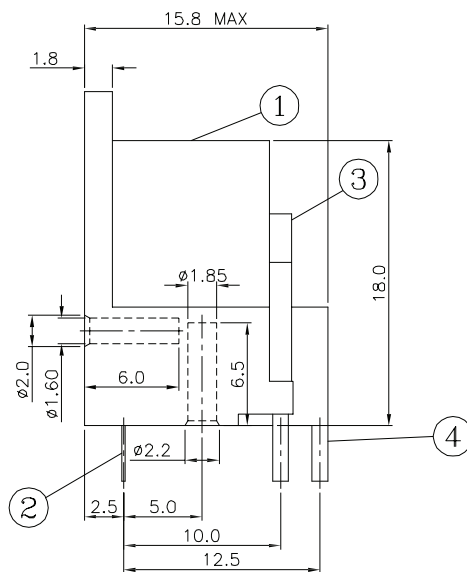
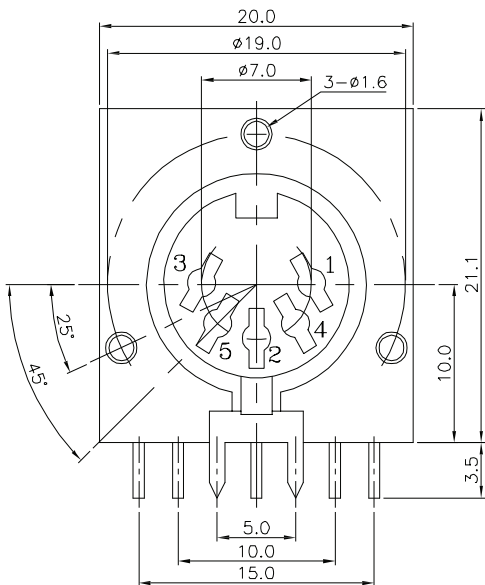
| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1    | housing     | PBT (UL94V-0)   | black         |
| 2    | ground      | phosphor bronze | silver        |
| 3    | cover       | PBT (UL94V-0)   | black         |
| 4    | terminal    | phosphor bronze | silver        |



## MECHANICAL DRAWING (SDS-50J)

units: mm  
tolerance:  $\pm 0.3$  mm  
PCB tolerance:  $\pm 0.05$  mm

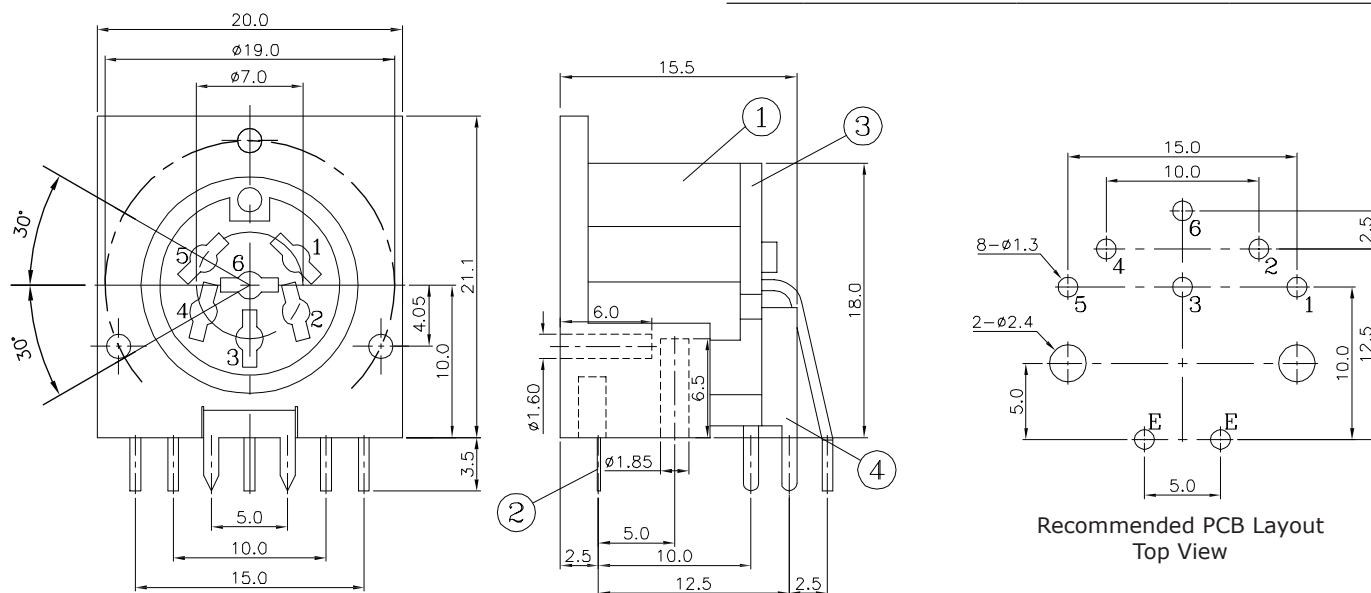
| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1    | housing     | PBT (UL94V-0)   | black         |
| 2    | ground      | phosphor bronze | copper/tin    |
| 3    | cover       | PE              |               |
| 4    | terminal    | phosphor bronze | copper/tin    |



## MECHANICAL DRAWING (SDS-60J)

units: mm  
tolerance:  $\pm 0.3$  mm  
PCB tolerance:  $\pm 0.05$  mm

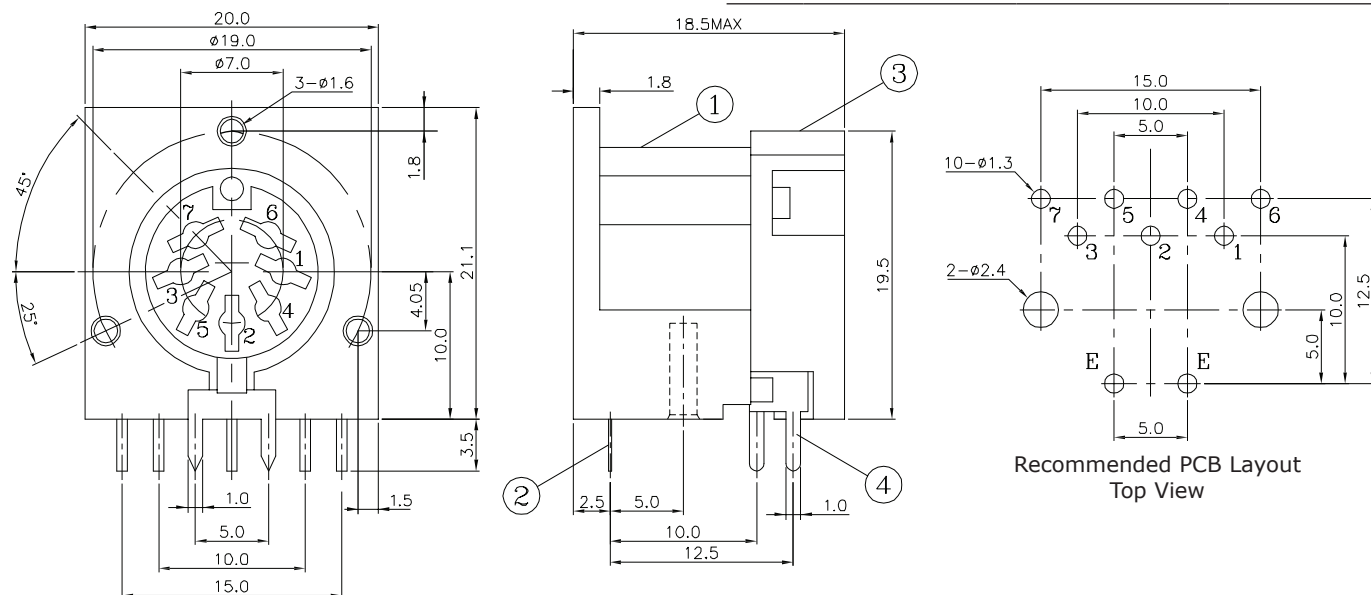
| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1    | housing     | PBT (UL94V-0)   | black         |
| 2    | ground      | phosphor bronze | copper/tin    |
| 3    | cover       | PF              | yellow        |
| 4    | terminal    | phosphor bronze | copper/tin    |



## MECHANICAL DRAWING (SDS-70J)

units: mm  
tolerance:  $\pm 0.3$  mm  
PCB tolerance:  $\pm 0.05$  mm

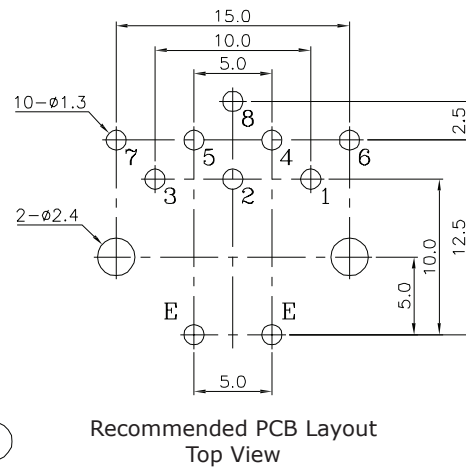
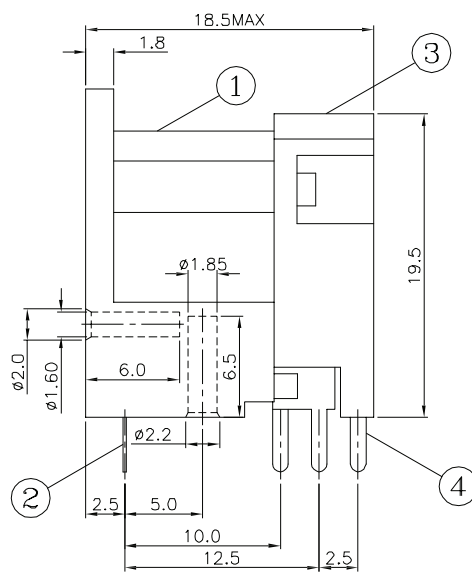
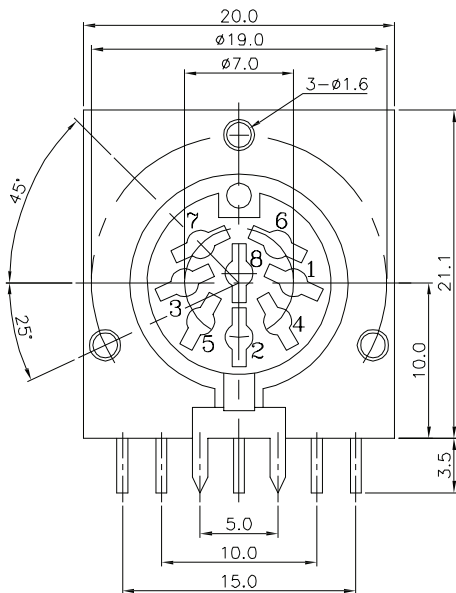
| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1    | housing     | PBT (UL94V-0)   | black         |
| 2    | ground      | phosphor bronze | silver        |
| 3    | cover       | PBT (UL94V-0)   | black         |
| 4    | terminal    | phosphor bronze | silver        |



## MECHANICAL DRAWING (SDS-80J)

units: mm  
tolerance:  $\pm 0.3$  mm  
PCB tolerance:  $\pm 0.05$  mm

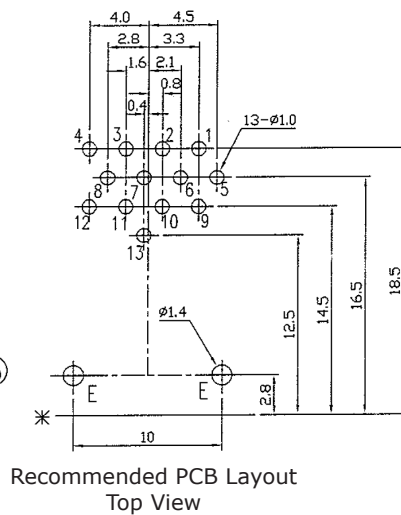
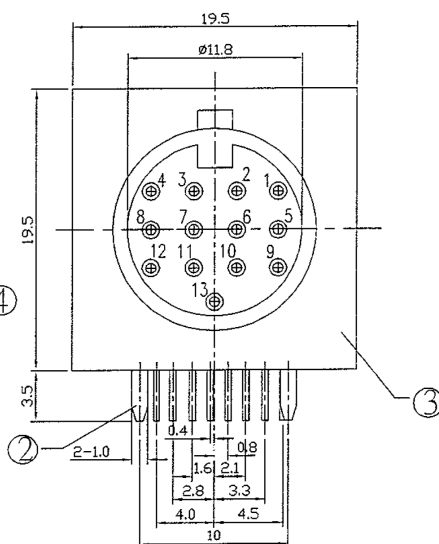
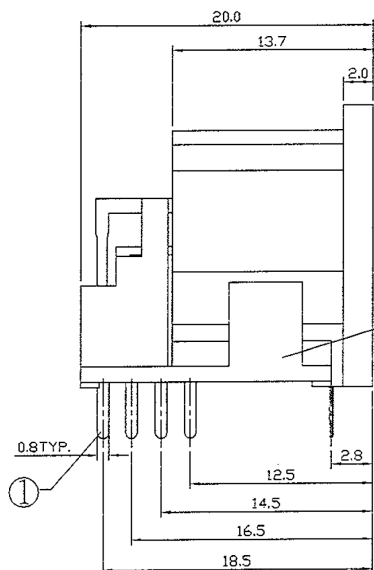
| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1    | housing     | PBT (UL94V-0)   | black         |
| 2    | ground      | phosphor bronze | copper/tin    |
| 3    | cover       | PBT (UL94V-0)   | black         |
| 4    | terminal    | phosphor bronze | copper/tin    |



## MECHANICAL DRAWING (SDD-130J)

units: mm  
tolerance:  $\pm 0.3$  mm  
PCB tolerance:  $\pm 0.05$  mm

| ITEM | DESCRIPTION | MATERIAL        | PLATING/COLOR |
|------|-------------|-----------------|---------------|
| 1    | terminal    | phosphor bronze | silver        |
| 2    | ground      | phosphor bronze | silver        |
| 3    | housing     | PBT (UL94V-0)   | black         |
| 4    | cover       | PBT (UL94V-0)   | black         |



## REVISION HISTORY

| rev. | description                              | date       |
|------|------------------------------------------|------------|
| 1.0  | initial release                          | 02/23/2006 |
| 1.01 | new template applied                     | 04/26/2012 |
| 1.02 | updated spec                             | 01/15/2014 |
| 1.03 | updated datasheet                        | 09/08/2017 |
| 1.04 | updated datasheet                        | 07/24/2018 |
| 1.05 | discontinued model SDS-30J, brand update | 10/08/2019 |
| 1.06 | updated housing                          | 02/13/2020 |

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

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