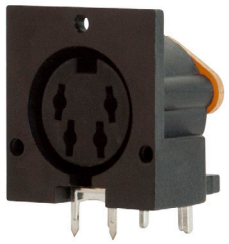
CUI Devices is now Same Sky! Learn More



# SERIES: SDS-J | DESCRIPTION: STANDARD DIN CONNECTOR

## FEATURES

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



RoHS

## PART NUMBER KEY

SDS - XX J

Base Number

Pin Options
30* = 3 pins
40 = 4 pins
50 = 5 pins, 180 degrees
60 = 6 pins
70 = 7 pins
80 = 8 pins
SDD-130J = 13 pins

Notes: *Discontinued model SDS-30J

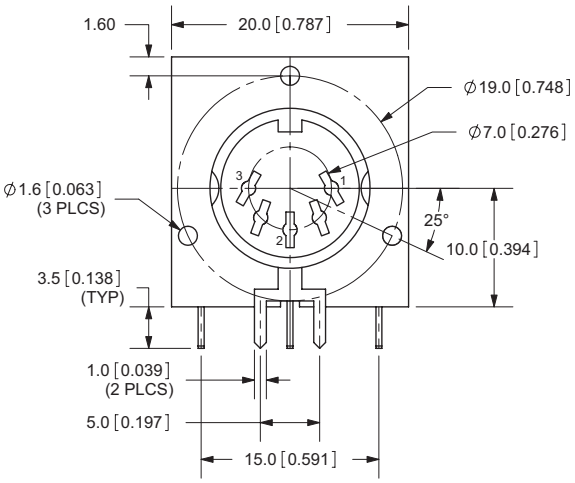
## SPECIFICATIONS

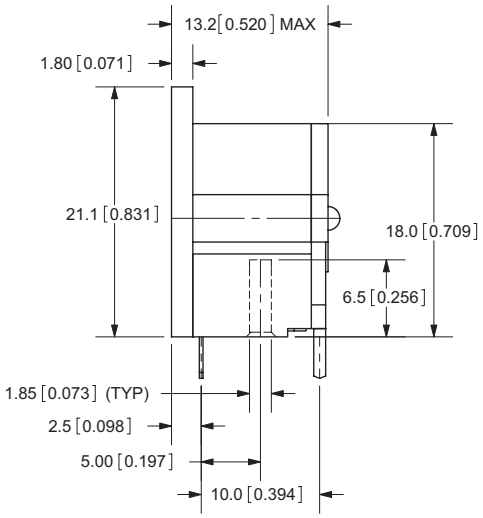
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated input voltage | | | 100<br>24 | | Vac<br>Vdc |
| rated input current | at 100 Vac<br>at 24 Vdc | | 2<br>1 | | A<br>A |
| contact resistance | | | | 30 | mΩ |
| insulation resistance | at 250 Vdc | 50 | | | 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 | | | | |

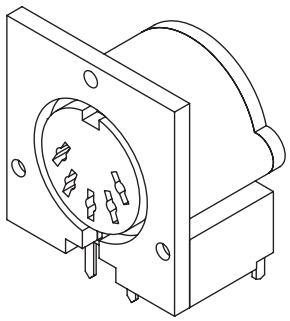
# MECHANICAL DRAWING (SDS-30J)

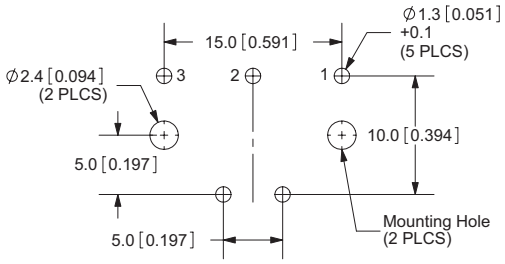
units: mm
tolerance: ±0.2 mm

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



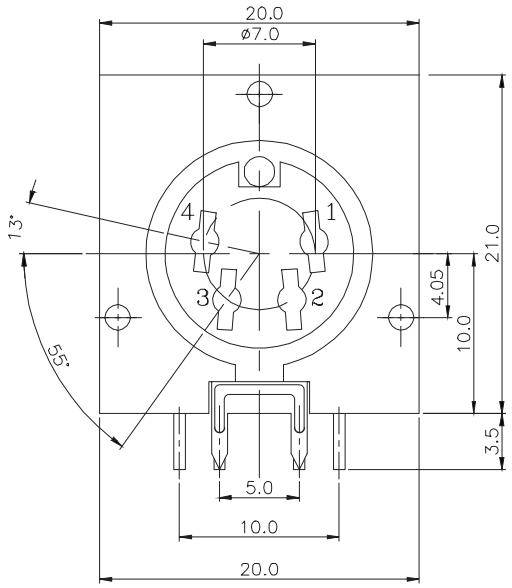


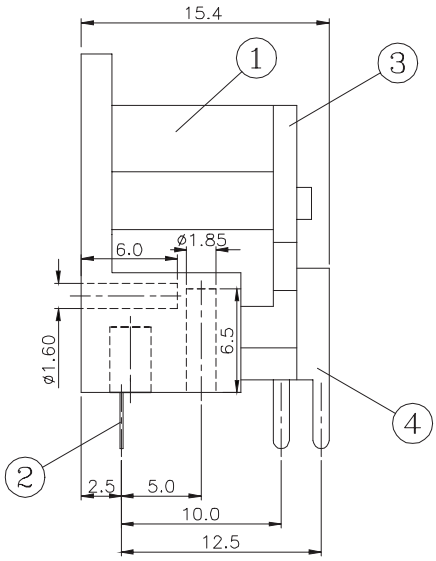

Recommended PCB Layout
Top View

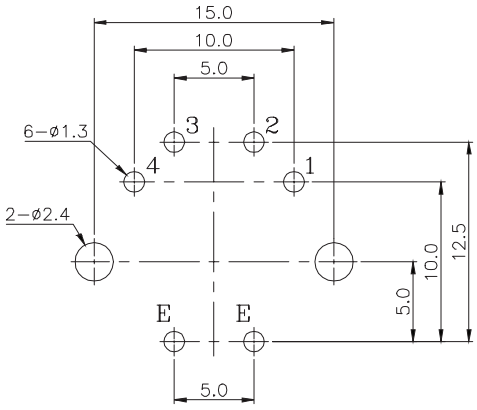
## MECHANICAL DRAWING (SDS-40J)

units: mm
tolerance: ±0.3 mm
PCB tolerance: ±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 |



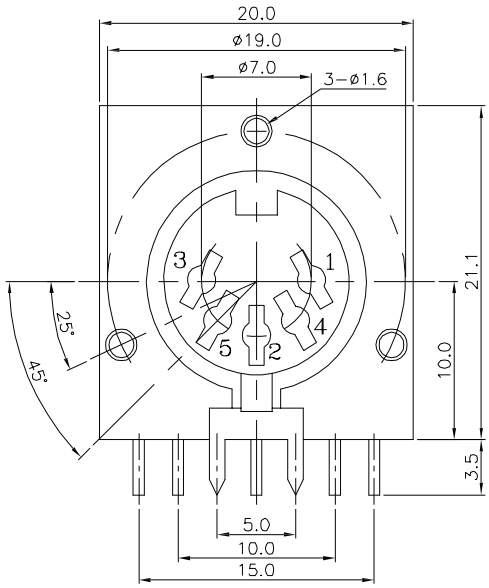



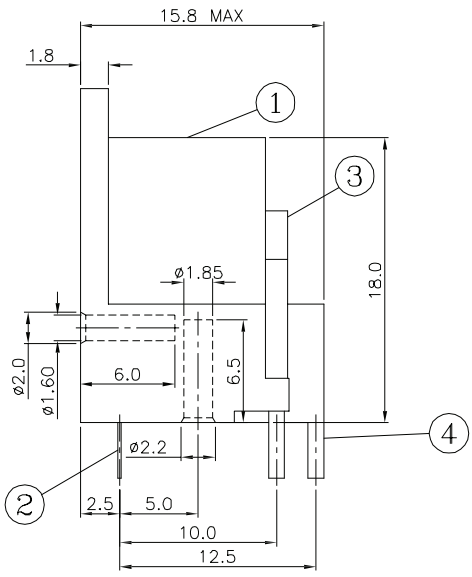

Recommended PCB Layout
Top View

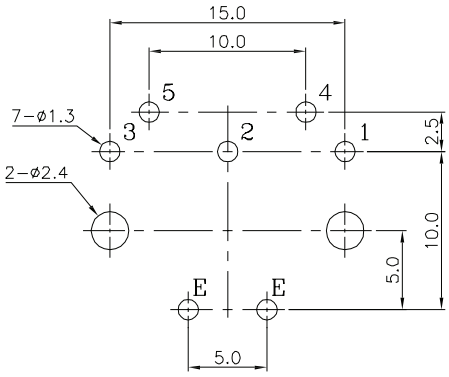
## MECHANICAL DRAWING (SDS-50J)

units: mm
tolerance: ±0.3 mm
PCB tolerance: ±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 |



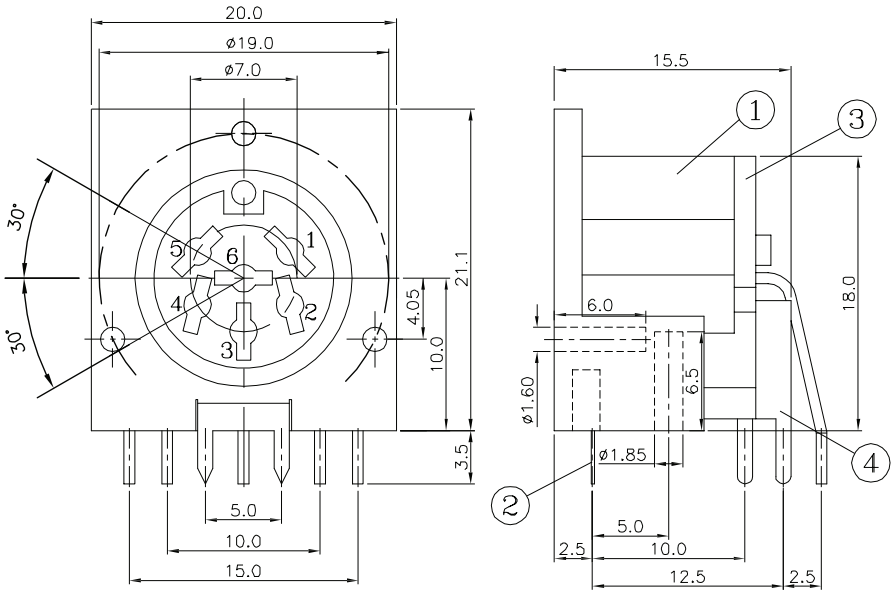



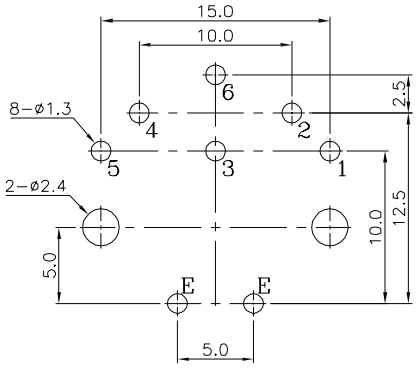

Recommended PCB Layout
Top View

## MECHANICAL DRAWING (SDS-60J)

units: mm
tolerance: ±0.3 mm
PCB tolerance: ±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 |



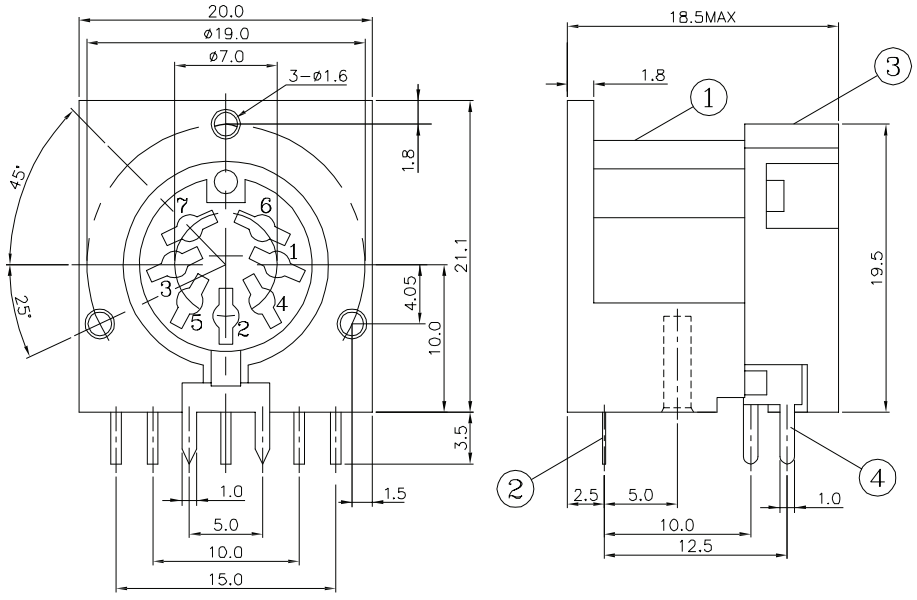



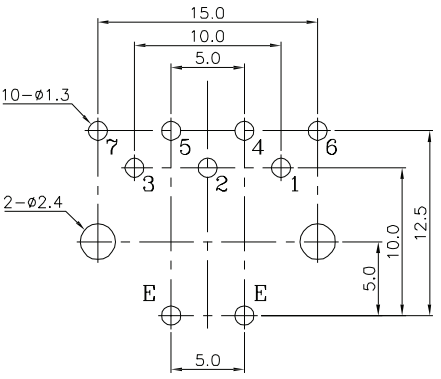

Recommended PCB Layout
Top View

## MECHANICAL DRAWING (SDS-70J)

units: mm
tolerance: ±0.3 mm
PCB tolerance: ±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 |



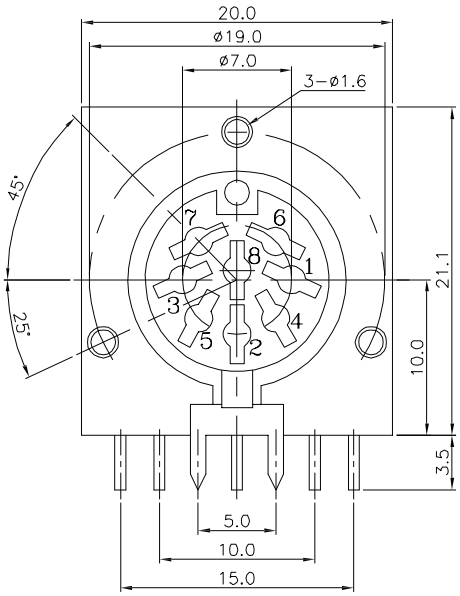



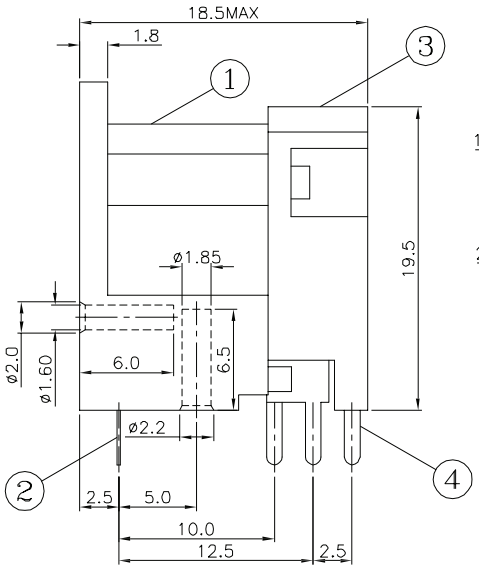

Recommended PCB Layout
Top View

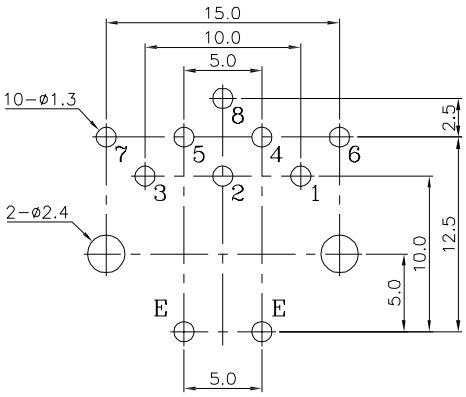
## MECHANICAL DRAWING (SDS-80J)

units: mm
tolerance: ±0.3 mm
PCB tolerance: ±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 |



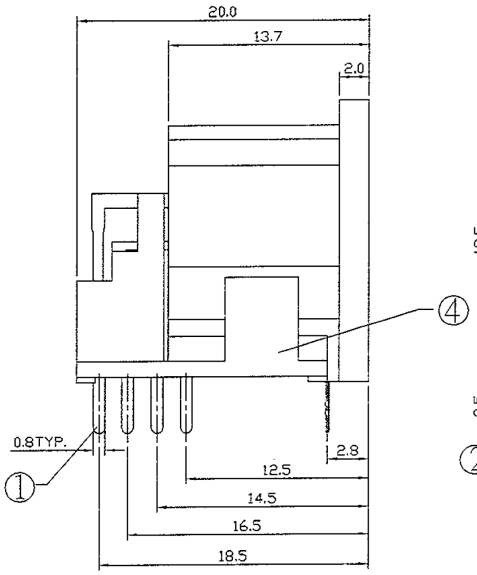



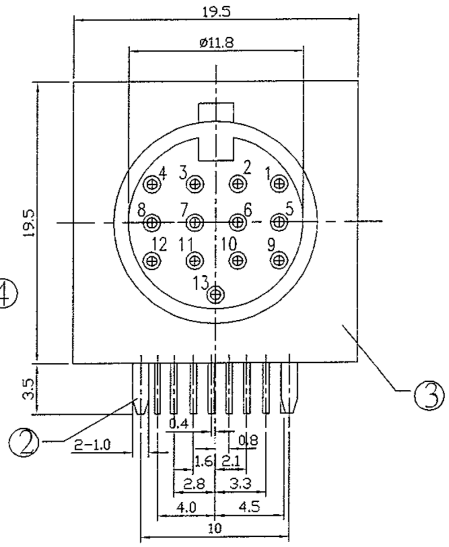

Recommended PCB Layout
Top View

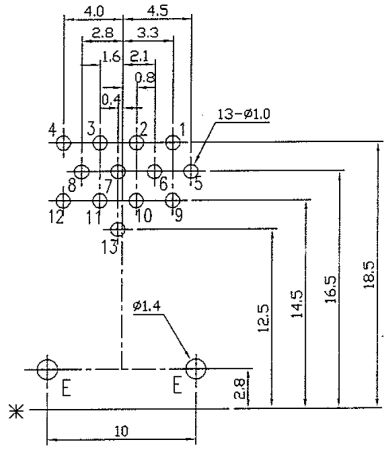
## MECHANICAL DRAWING (SDD-130J)

units: mm
tolerance: ±0.3 mm
PCB tolerance: ±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 |




Recommended PCB Layout
Top View

## 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 |
| 1.07 | logo, datasheet style update | 08/05/2022 |
| 1.08 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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

same sky

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