

**MODEL:** HD01-19-RA-TH | **DESCRIPTION:** HDMI RECEPTACLE**FEATURES**

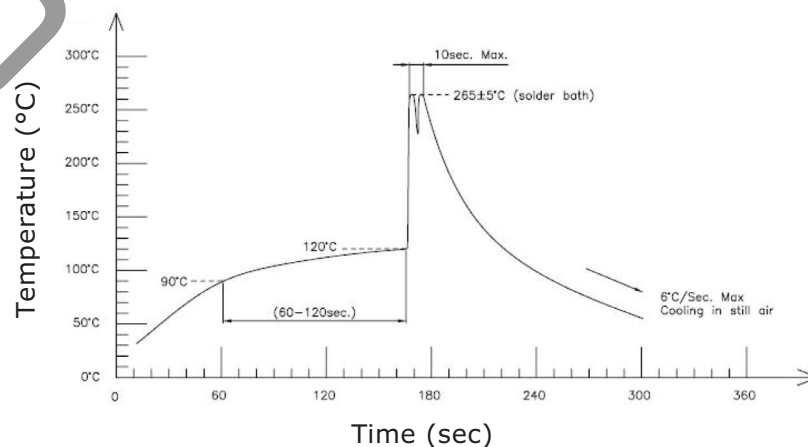
- HDMI receptacle connector
- 19 position
- HDMI 2.1
- vertical mounted, right angle
- wave solder compatible
- tray packaging

**SPECIFICATIONS**

| parameter             | conditions/description                                                                             | min        | typ    | max      | units      |
|-----------------------|----------------------------------------------------------------------------------------------------|------------|--------|----------|------------|
| rated voltage         |                                                                                                    |            |        | 40       | Vac        |
| rated current         |                                                                                                    |            |        | 0.5      | A          |
| contact resistance    | contact: dry circuit at 20 mV / 10 mA max<br>shell: open circuit at 5 V / 100 mA max               |            |        | 30<br>50 | mΩ<br>mΩ   |
| insulation resistance | unmated: at 500 Vdc between adjacent terminals<br>mated: at 150 Vdc between adjacent terminals     | 100<br>10  |        |          | MΩ<br>MΩ   |
| voltage withstand     | unmated: for 1 minute between adjacent terminals<br>mated: for 1 minute between adjacent terminals | 500<br>300 |        |          | Vac<br>Vac |
| insertion force       | at 25±3 mm per minute                                                                              |            |        | 44.1     | N          |
| withdrawal force      | at 25±3 mm per minute                                                                              | 9.8        |        | 39.2     | N          |
| life                  | at a rate of 100±50 cycles/hour                                                                    |            | 10,000 |          | cycles     |
| operating temperature |                                                                                                    | -20        |        | 85       | °C         |
| operating humidity    | non-condensing                                                                                     |            |        | 95       | %          |
| flammability rating   | UL94V-0                                                                                            |            |        |          |            |
| RoHS                  | yes                                                                                                |            |        |          |            |

**SOLDERABILITY**

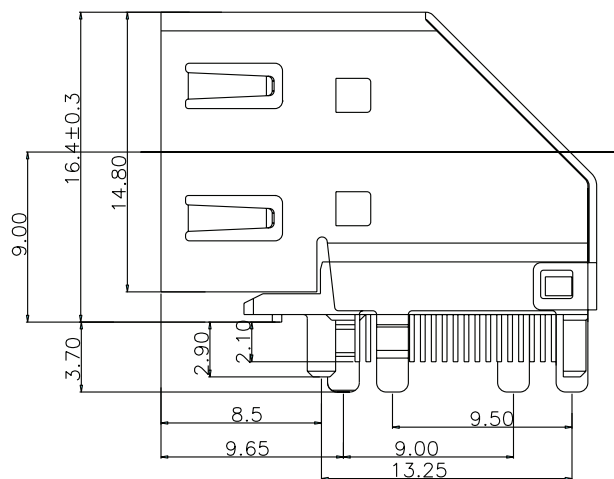
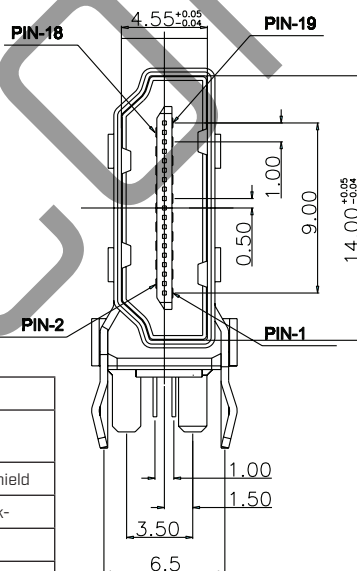
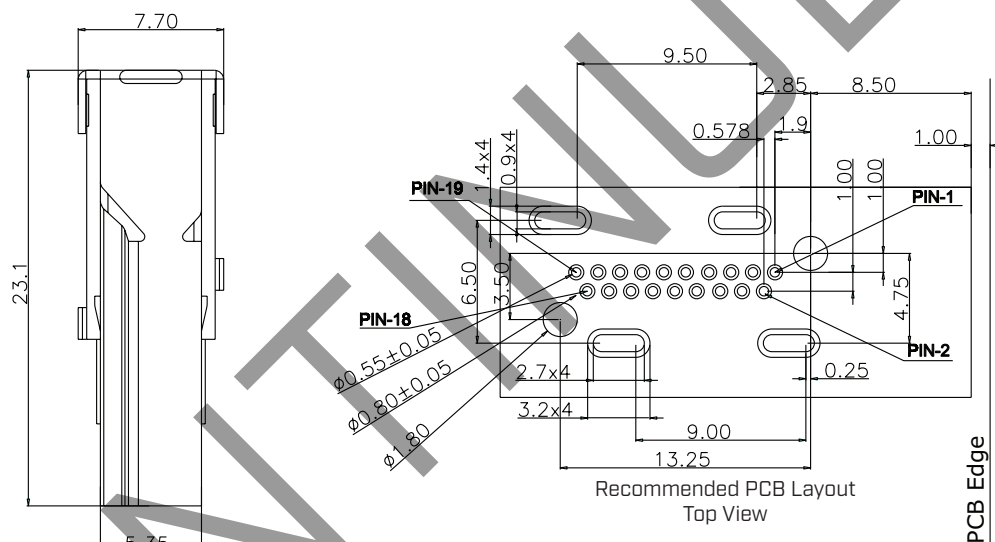
| parameter      | conditions/description  | min | typ | max | units |
|----------------|-------------------------|-----|-----|-----|-------|
| wave soldering | see wave solder profile | 260 | 265 | 270 | °C    |



## MECHANICAL DRAWING

units: mm  
tolerance:  
X.X  $\pm 0.30$  mm  
X.XX  $\pm 0.20$  mm  
X.XXX  $\pm 0.10$  mm  
PCB:  $\pm 0.10$  mm  
PCB thickness: 1.0~1.80 mm  
unless otherwise noted

|   | MATERIAL  | PLATING                                               |
|---|-----------|-------------------------------------------------------|
| 1 | insulator | LCP (UL94V-0)                                         |
| 2 | shell     | brass                                                 |
| 3 | contacts  | phosphor bronze                                       |
|   |           | contact area: 0.025 $\mu$ m gold;<br>solder area: tin |



| PIN CONNECTIONS |                    |     |                   |
|-----------------|--------------------|-----|-------------------|
| PIN             | SIGNAL NAME        | PIN | SIGNAL NAME       |
| 1               | TMDS data 2+       | 11  | TMDS clock shield |
| 2               | TMDS data 2 shield | 12  | TMDS clock-       |
| 3               | TMDS data 2-       | 13  | CEC               |
| 4               | TMDS data 1+       | 14  | Not Connected     |
| 5               | TMDS data 1 shield | 15  | DDC clock         |
| 6               | TMDS data 1-       | 16  | DDC data          |
| 7               | TMDS data 0+       | 17  | GND               |
| 8               | TMDS data 0 shield | 18  | +5V power         |
| 9               | TMDS data 0-       | 19  | Hot plug detect   |
| 10              | TMDS clock+        |     |                   |

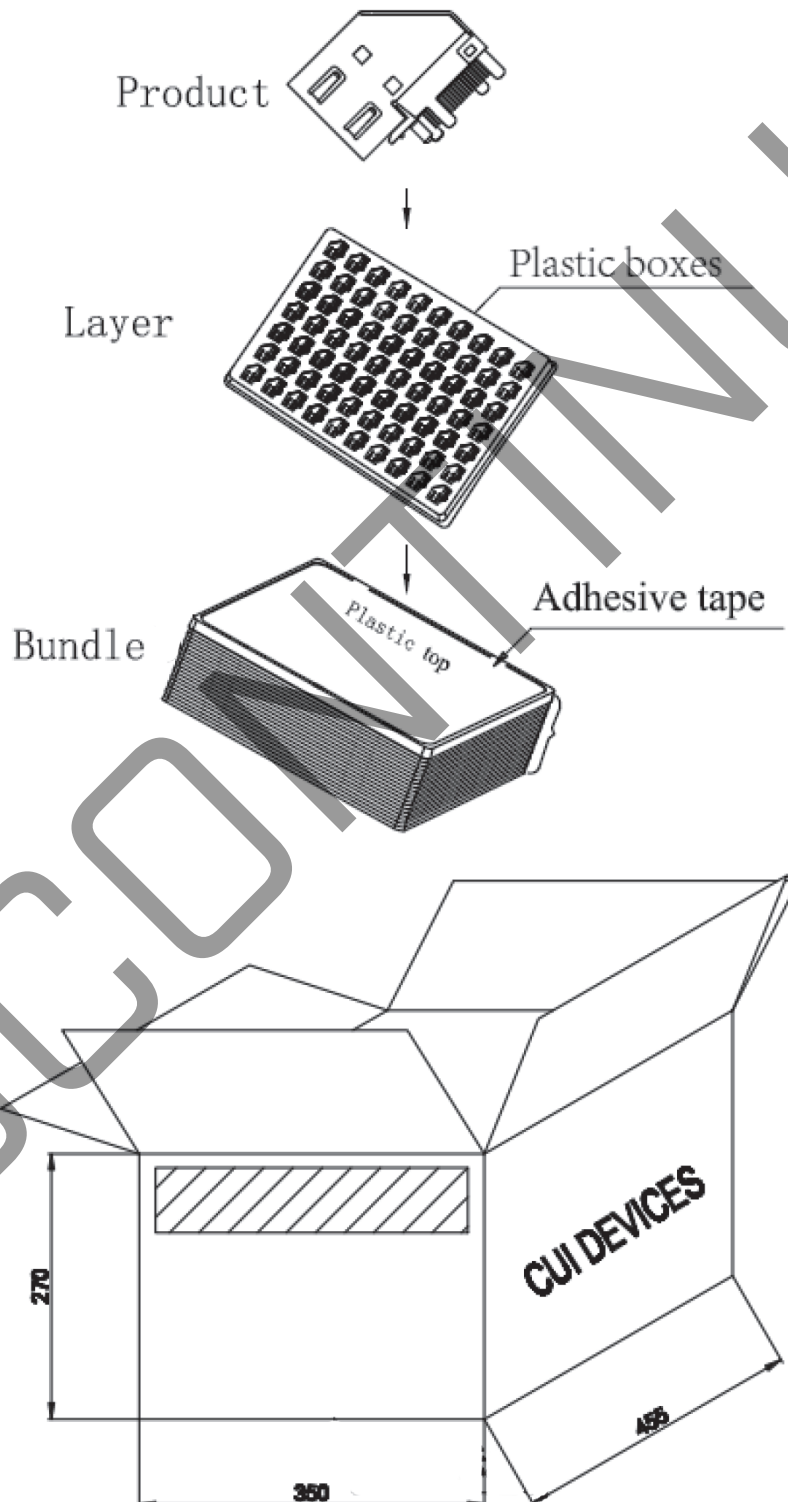
## PACKAGING

units: mm

Tray QTY: 100 pcs per TRAY

Carton Size: 455 x 350 x 270 mm

Carton QTY: 5,000 pcs per carton



## REVISION HISTORY

| rev. | description                  | date       |
|------|------------------------------|------------|
| 1.0  | initial release              | 09/29/2021 |
| 1.01 | 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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