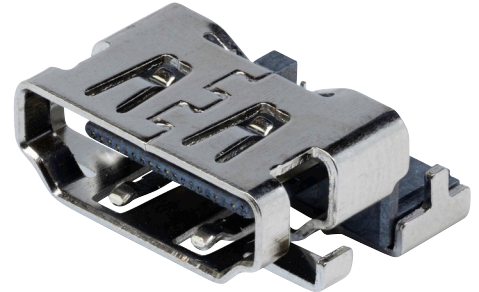


**MODEL:** HD10-19-MSMT-TR | **DESCRIPTION:** HDMI RECEPTACLE**FEATURES**

- HDMI 2.0
- 19 position
- tape & reel packaging
- reflow solder compatible

**SPECIFICATIONS**

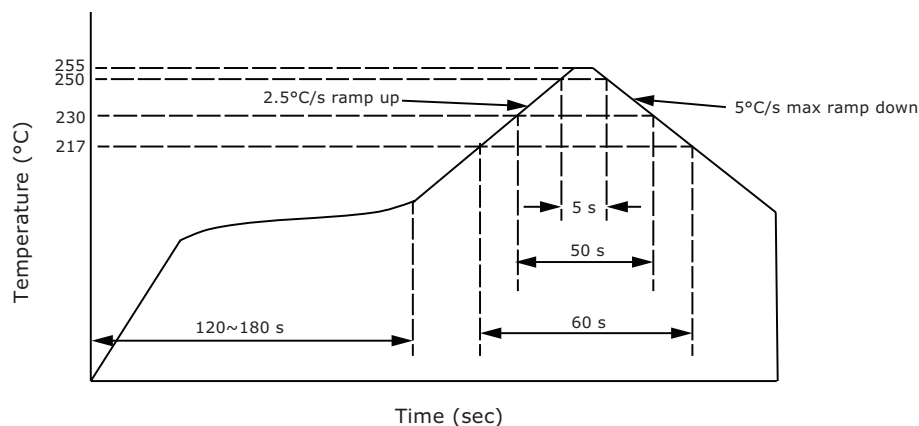
| parameter                       | conditions/description            | min | typ    | max | units  |
|---------------------------------|-----------------------------------|-----|--------|-----|--------|
| HDMI standard                   | HDMI 2.0                          |     |        |     |        |
| rated voltage                   |                                   |     |        | 40  | Vac    |
| rated current                   |                                   |     |        | 0.5 | A      |
| contact resistance <sup>1</sup> | between terminals and mating plug |     |        | 30  | mΩ     |
| insulation resistance           | at 500 Vdc                        | 100 |        |     | MΩ     |
| voltage withstand               | for 1 minute                      |     | 500    |     | Vac    |
| insertion force                 |                                   |     |        | 4.5 | kgf    |
| withdrawal force                |                                   | 1   |        | 4.0 | kgf    |
| life                            |                                   |     | 10,000 |     | cycles |
| operating temperature           |                                   | -40 |        | 85  | °C     |
| flammability rating             | UL94V-0                           |     |        |     |        |
| RoHS                            | yes                               |     |        |     |        |

Note: 1. When measured at 20 mV / 100 mA.  
2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

**SOLDERABILITY**

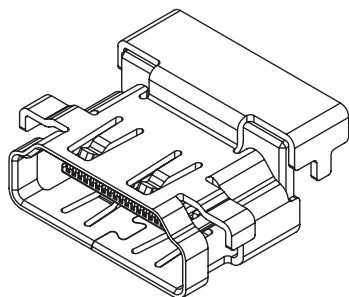
| parameter                     | conditions/description      | min | typ | max | units |
|-------------------------------|-----------------------------|-----|-----|-----|-------|
| reel storage                  | at relative humidity 65~70% | 25  |     | 30  | °C    |
| reflow soldering <sup>3</sup> | see reflow profile          |     | 255 | 260 | °C    |

Note: 3. It is recommended to reflow solder within 3 months from opening vacuum packaging at a temperature of 25~30°C & relative humidity 65~70%.

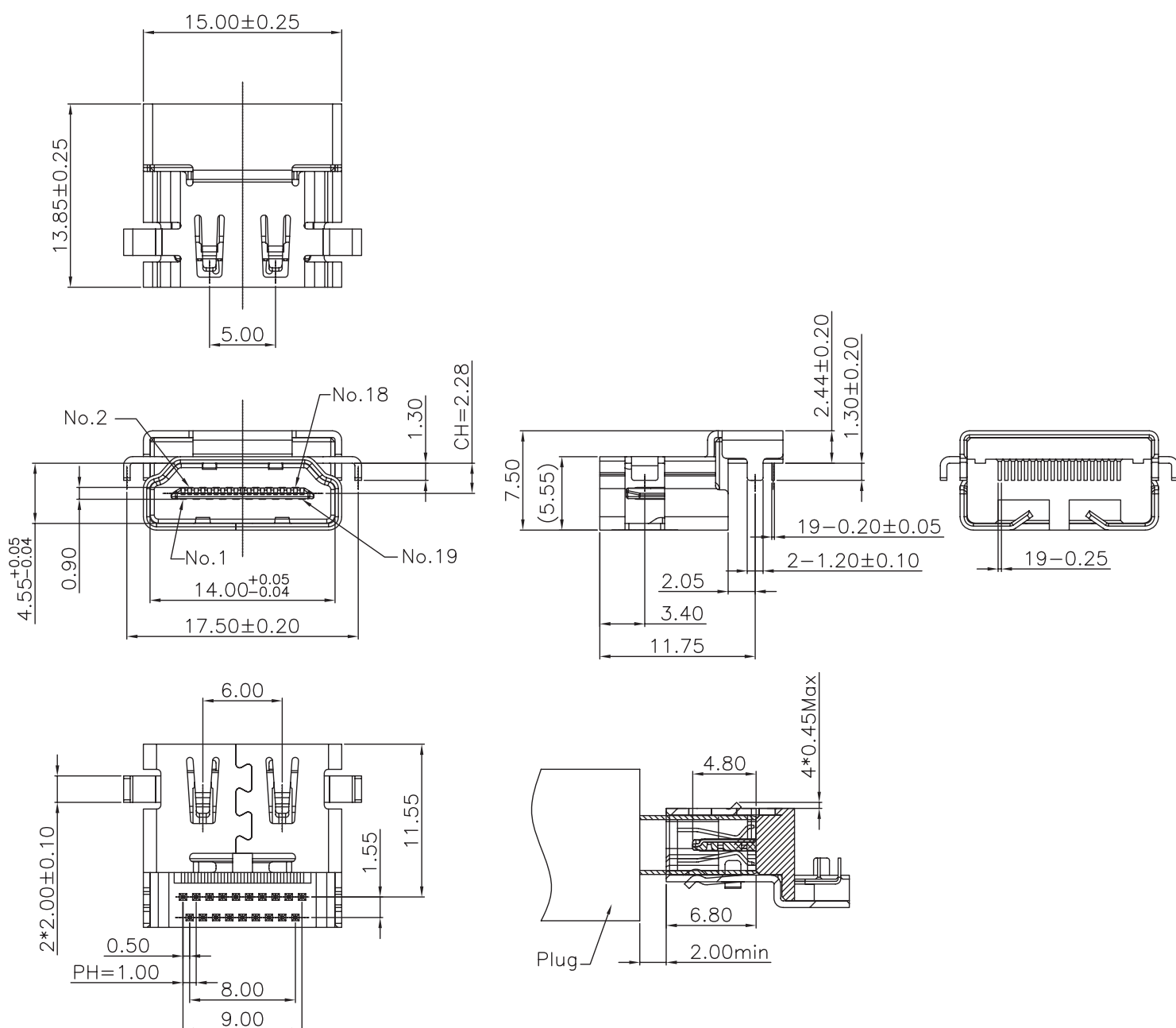


## MECHANICAL DRAWING

units: mm  
tolerance:  
X.  $\pm 0.38$  mm  
X.X  $\pm 0.25$  mm  
X.XX  $\pm 0.20$  mm  
X.XXX  $\pm 0.10$  mm  
unless otherwise specified



| DESCRIPTION | MATERIAL                  | PLATING/COLOR                                                              |
|-------------|---------------------------|----------------------------------------------------------------------------|
| insulator   | LCP [UL94V-0]             | black                                                                      |
| contact     | copper alloy<br>t=0.20 mm | contact area: gold<br>flash over nickel<br>solder area: tin over<br>nickel |
| shell       | copper alloy<br>t=0.50 mm | nickel                                                                     |



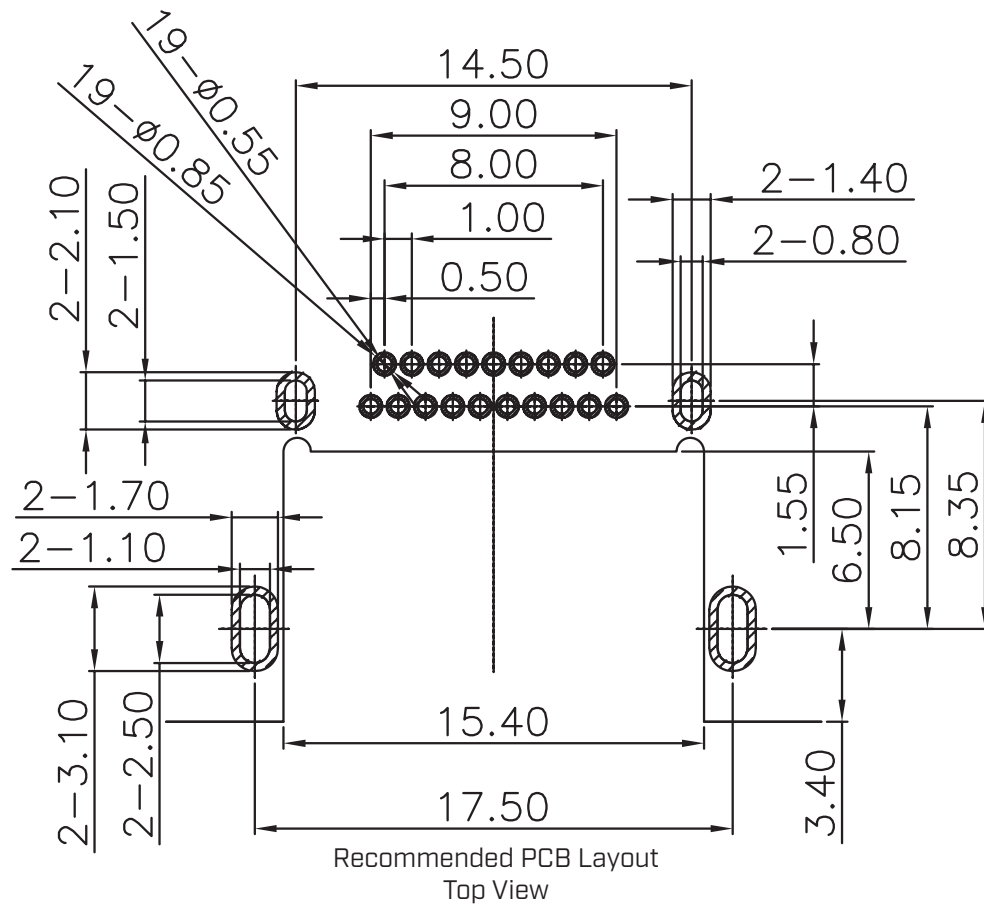
## MECHANICAL DRAWING (CONTINUED)

units: mm

PCB tolerance:  $\pm 0.05$  mm

PCB thickness: 1.20 mm

| PIN CONNECTIONS |                   |                 |     |                   |                 |
|-----------------|-------------------|-----------------|-----|-------------------|-----------------|
| PIN             | SIGNAL NAME       | MATING SEQUENCE | PIN | SIGNAL NAME       | MATING SEQUENCE |
| 1               | TMDS Data2+       | SECOND          | 2   | TMDS Data2 Shield | SECOND          |
| 3               | TMDS Data2-       | SECOND          | 4   | TMDS Data1+       | SECOND          |
| 5               | TMDS Data1 Shield | SECOND          | 6   | TMDS Data-        | SECOND          |
| 7               | TMDS Data0+       | SECOND          | 8   | TMDS Data0 Shield | SECOND          |
| 9               | TMDS Data0-       | SECOND          | 10  | TMDS Clock+       | SECOND          |
| 11              | TMDS Clock Shield | SECOND          | 12  | TMDS Clock-       | SECOND          |
| 13              | CEC               | SECOND          | 14  | Utility           | SECOND          |
| 15              | SCL               | SECOND          | 16  | SDA               | SECOND          |
| 17              | DDC/CEC Ground    | SECOND          | 18  | +5V Power         | THIRD           |
| 19              | Hot Plug Detect   | SECOND          |     |                   |                 |
| SHELL/SHIELD    |                   | FIRST           |     |                   |                 |

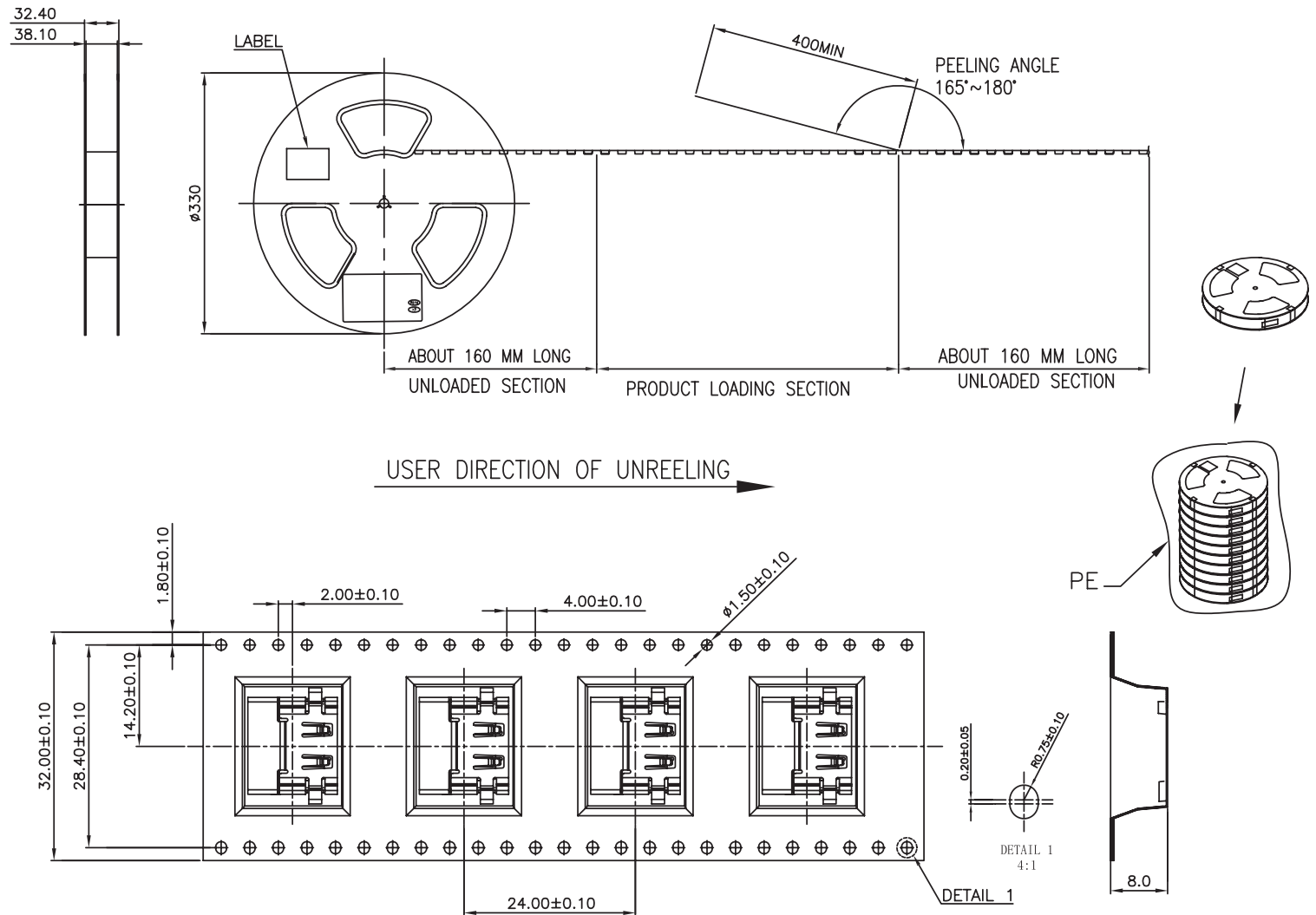


## PACKAGING

units: mm

Reel Size:  $\varnothing 330$  mm

Reel QTY: 350 pcs per reel



## REVISION HISTORY

| rev. | description     | date       |
|------|-----------------|------------|
| 1.0  | initial release | 07/26/2023 |

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



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI Devices products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

**cuidevices.com**