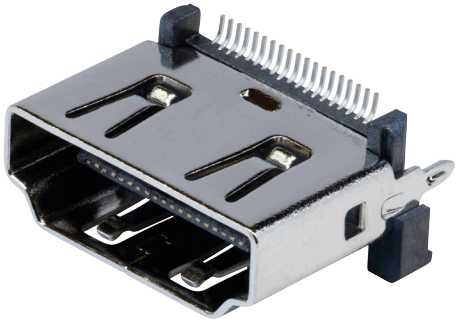
MODEL: HD12-19-SMT-TR | DESCRIPTION: HDMI RECEPTACLE

FEATURES

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



RoHS

SPECIFICATIONS

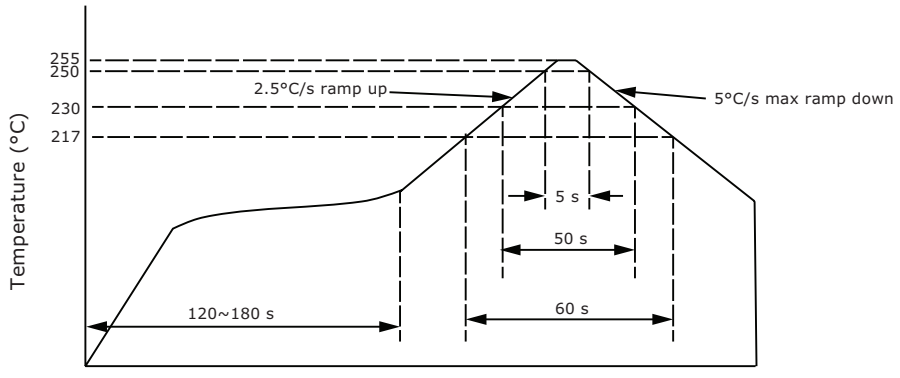
parameter	conditions/description	min	typ	max	units
HDMI standard	HDMI 2.0				
rated voltage				40	Vac
rated current				0.5	A
contact resistance[1]	between terminals and mating plug			20	mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	for 1 minute		500		Vac
insertion force				4.5	kgf
withdrawal force		1		4.0	kgf
life			5,000		cycles
operating temperature		-40		100	°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[3]	see reflow profile		255	260	°C

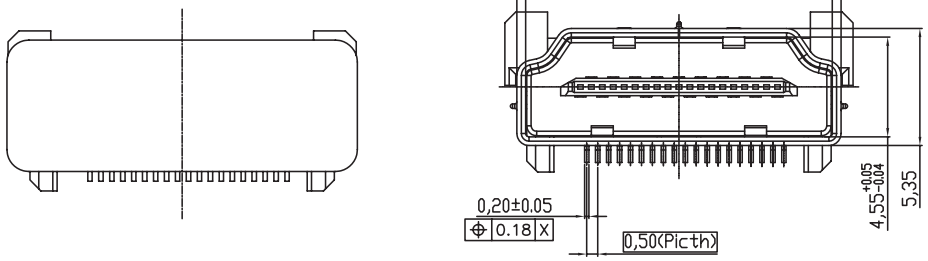
Note: 3. It is recommended to reflow solder within 3 months from opening vacuum packaging at a temperature of 25~30°C & relative humidity 65~70%.

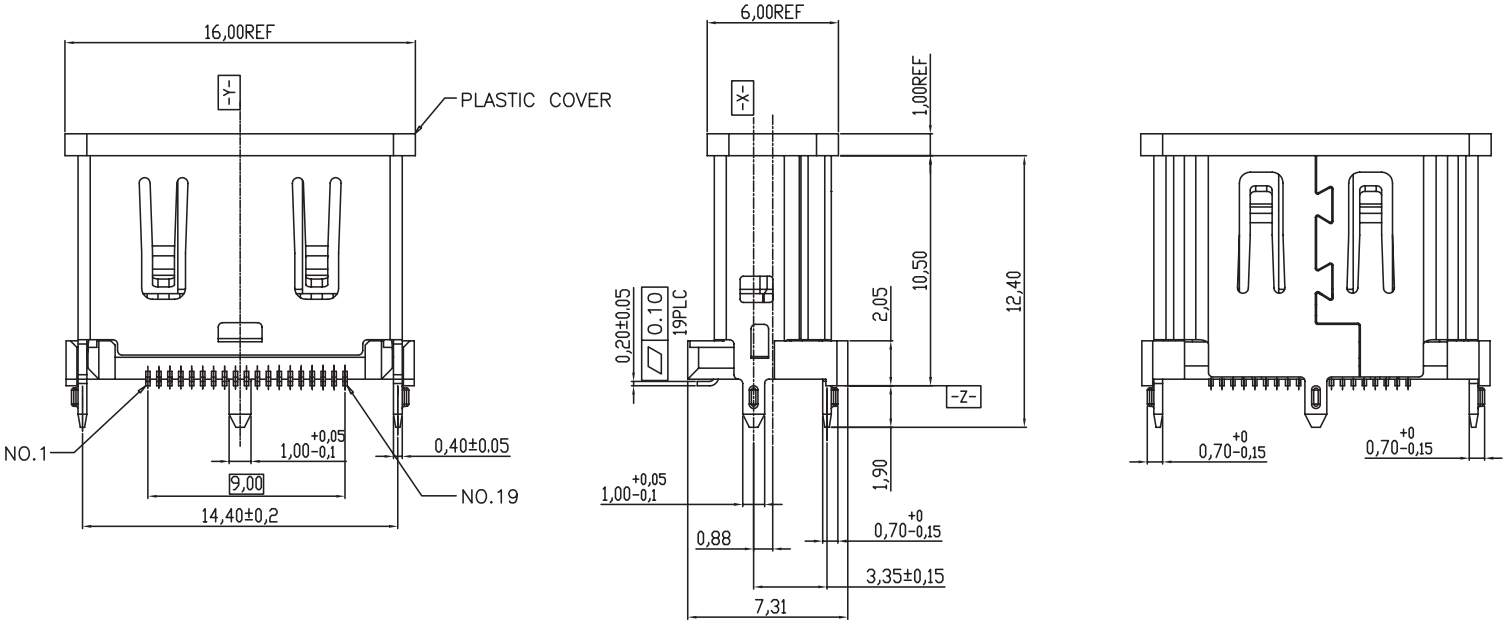


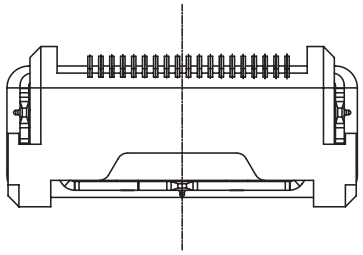
MECHANICAL DRAWING

units: mm
tolerance:
X. ±0.30 mm
X.X ±0.20 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
unless otherwise specified

DESCRIPTION	MATERIAL	PLATING/COLOR
insulator	LCP (UL94V-0)	black
cover	LCP (UL94V-0)	black
contact	brass	contact area: gold flash over nickel solder area: matte tin over nickel
shell	SUS201	nickel



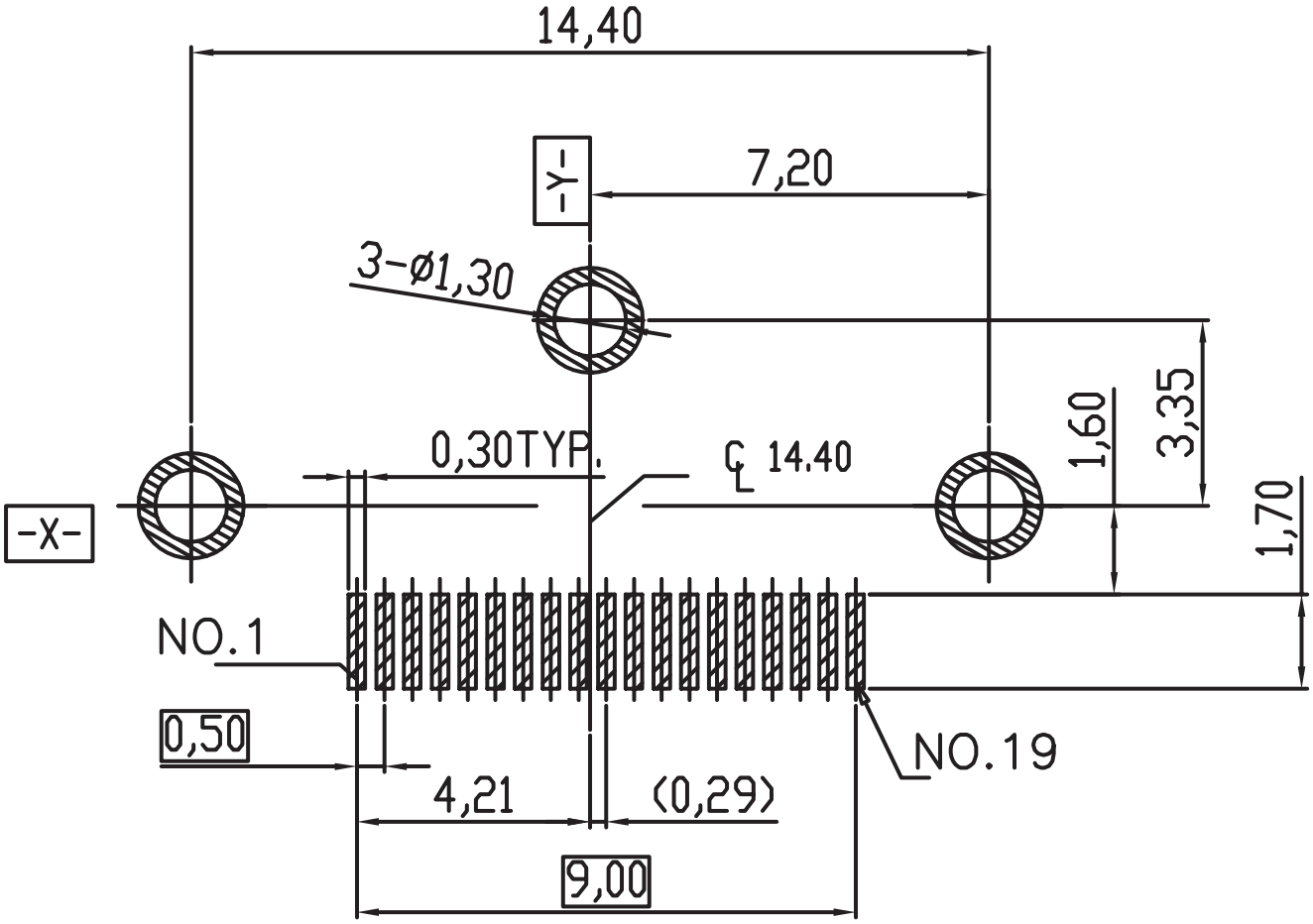




MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ±0.05 mm
PCB thickness: 1.60 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			

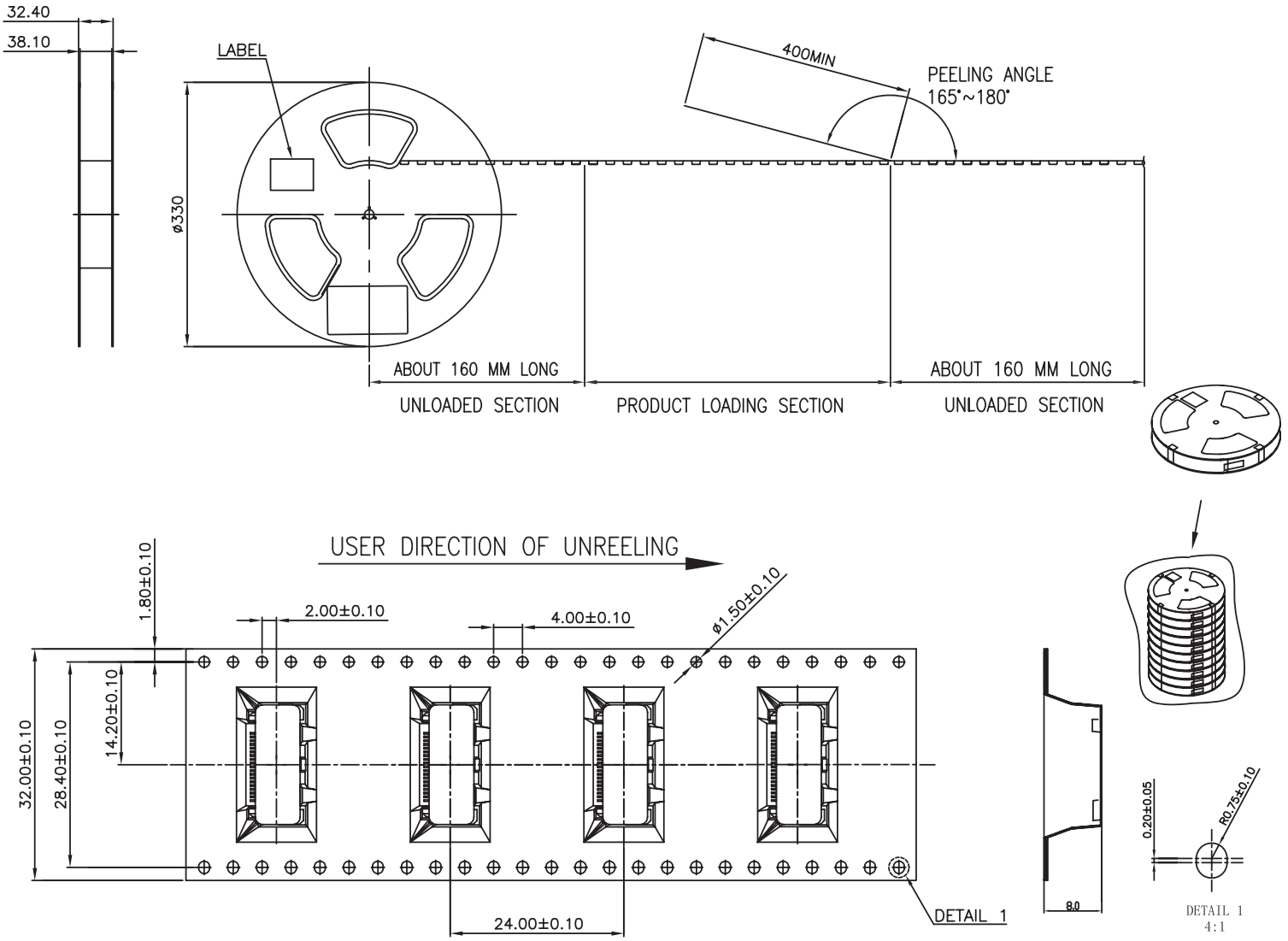


Recommended PCB Layout
Top View

PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 250 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.

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