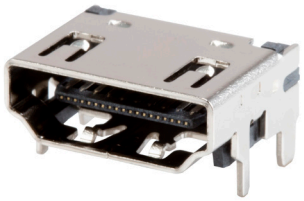
CUI DEVICES

MODEL: HDO4-19-TH-TR | **DESCRIPTION:** HDMI RECEPTACLE

FEATURES

- HDMI receptacle connector
- 19 position
- HDMI 2.1
- through hole
- reflow solder compatible
- tape & reel packaging



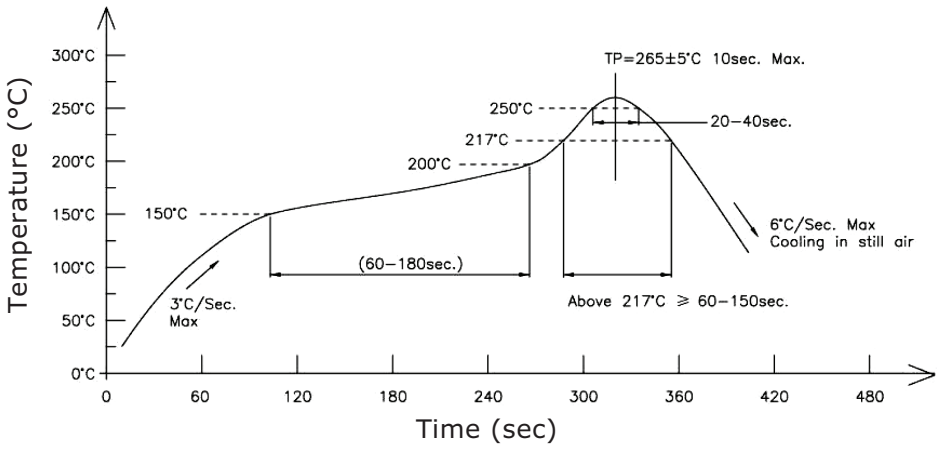
RoHS

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 shell: open circuit at 5 V / 100 mA max			30 50	mΩ mΩ
insulation resistance	unmated: at 500 Vdc between adjacent terminals mated: at 150 Vdc between adjacent terminals	100 10			MΩ MΩ
voltage withstand	unmated: for 1 minute between adjacent terminals mated: for 1 minute between adjacent terminals	500 300			Vac 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				

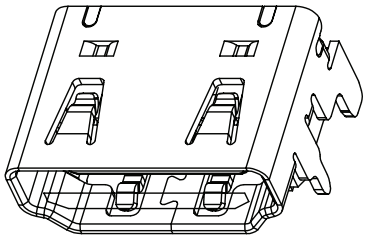
SOLDERABILITY

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

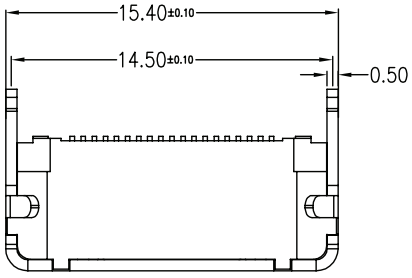


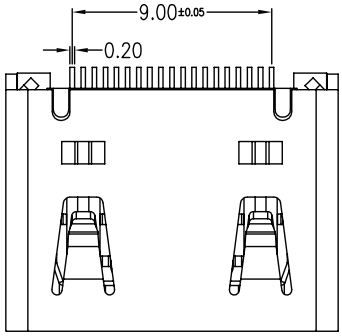
MECHANICAL DRAWING

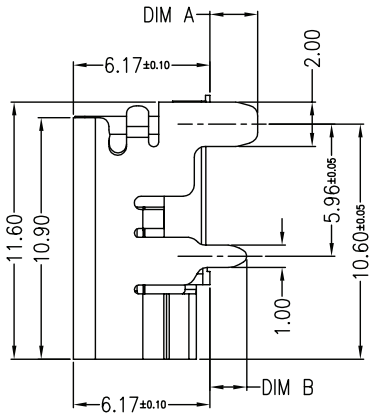
units: mm
tolerance:
X.X ±0.30 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
PCB: ±0.05 mm
PCB thickness: 1.0~1.80 mm
unless otherwise noted

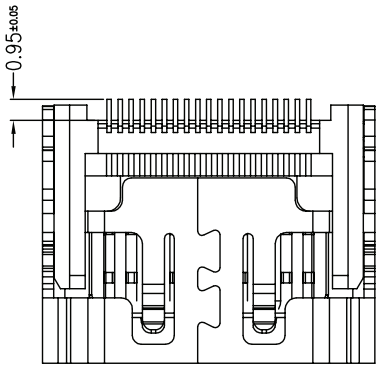


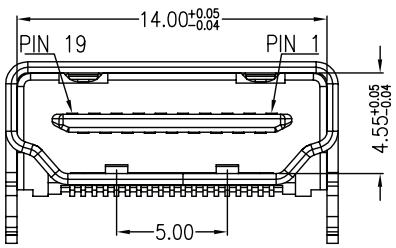
		MATERIAL	PLATING
1	insulator	LCP (UL94V-0)	black
2	shell	brass	nickel
3	contacts	phosphor bronze	contact area: 0.025 µm gold; solder area: tin

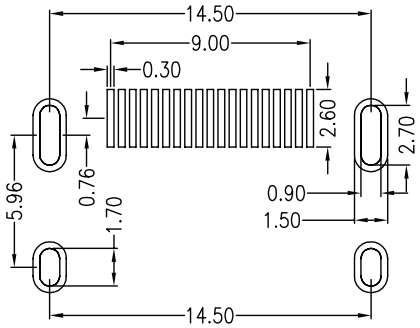












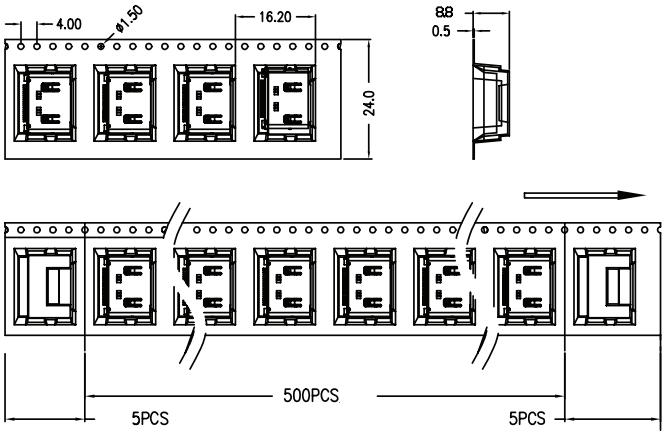
Recommended PCB Layout
Top View

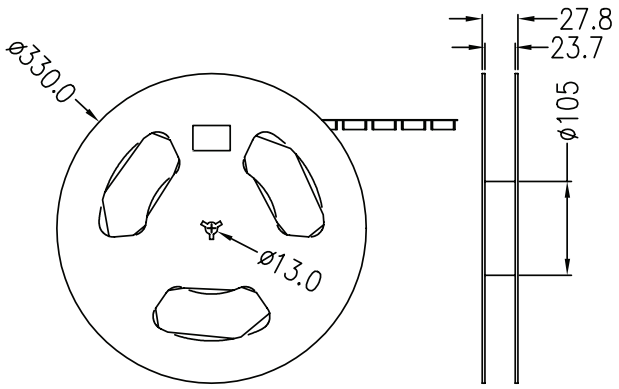
PIN CONNECTIONS			
PIN	SIGNAL NAME	PIN	SIGNAL NAME
1	TMDS data 2+	11	TMDS clock shield
2	TMDS data 2 shield	12	TMDS clock-
3	TMDS data 2-	13	CEC
4	TMDS data 1+	14	Not Connected
5	TMDS data 1 shield	15	DDC clock
6	TMDS data 1-	16	DDC data
7	TMDS data 0+	17	GND
8	TMDS data 0 shield	18	+5V power
9	TMDS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

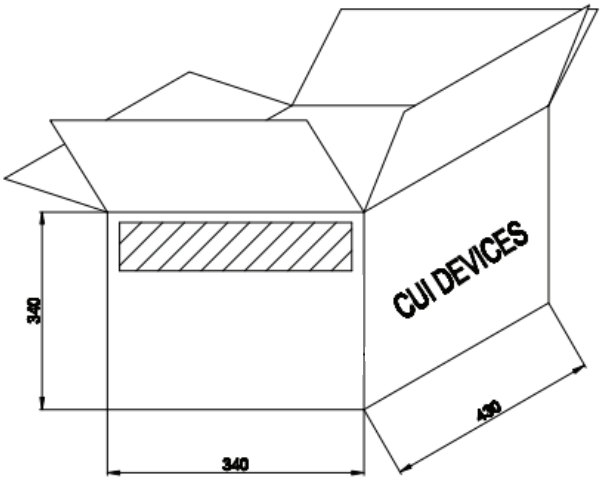
PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 500 pcs per reel
Carton Size: 430 x 340 x 340 mm
Carton QTY: 5,000 pcs per carton







REVISION HISTORY

rev.	description	date
1.0	initial release	09/29/2021

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

CUI DEVICES

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

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