

MODEL: UJ20-C-V-G-SMT-P16-TR | **DESCRIPTION:** USB RECEPTACLE**FEATURES**

- USB Type C receptacle
- USB 2.0
- 480 Mbit/s data transfer speed
- reflow solder compatible
- tape & reel packaging

**SPECIFICATIONS**

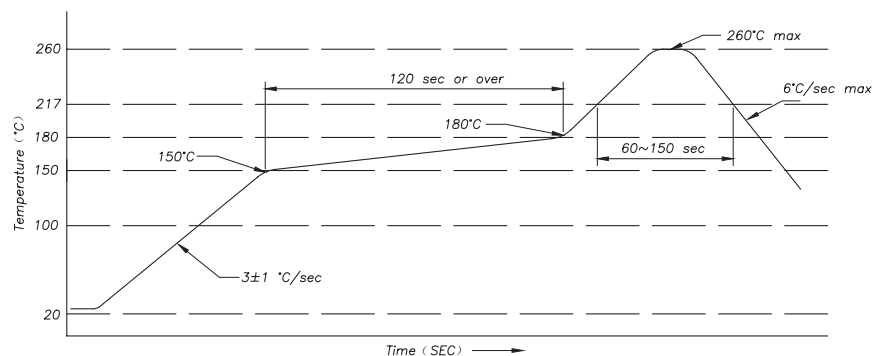
parameter	conditions/description	min	typ	max	units
USB standard	USB 2.0				
rated input voltage				30	Vdc
rated input current	as per EIA-364-70, Method B				
	power pins collectively [A1, A4, A9, A12, B1, B4, B9, B12]			5.0	A
	VCONN pins individually [A5, B5]			1.25	A
	all other signal pins individually			0.25	A
contact resistance ¹	between terminals and mating plug			40	mΩ
insulation resistance	at 100 Vdc between adjacent contacts	100			MΩ
voltage withstand	between adjacent contacts for 1 minute	100			Vac
insertion force	at a rate of 30 cycles/min	5		20	N
withdrawal force	at a rate of 30 cycles/min	8		20	N
life	at a rate of 500 cycles per hour		10,000		cycles
operating temperature		-25		85	°C
flammability rating	UL94V-0				
RoHS	yes				

Note: 1. When measured at 20 mV / 100 mA.

SOLDERABILITY

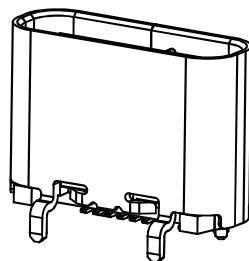
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity 65~70%	25		30	°C
reflow soldering ³	see reflow profile		260		°C

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%.

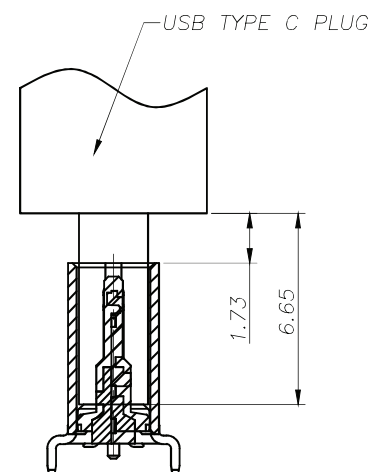
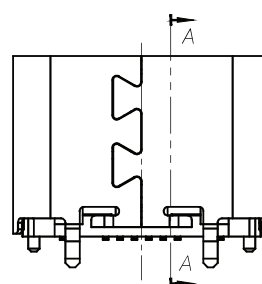
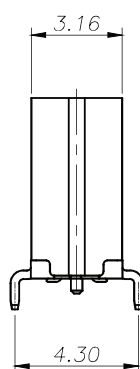
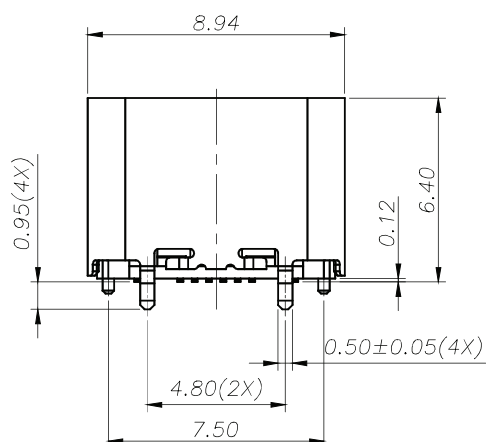
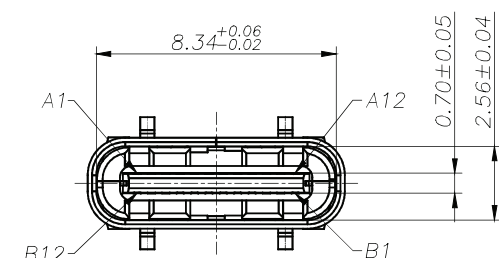


MECHANICAL DRAWING

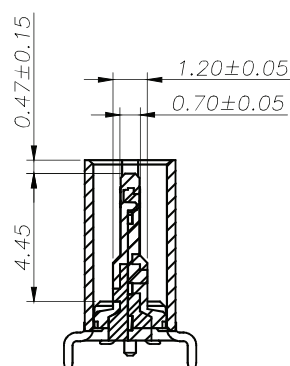
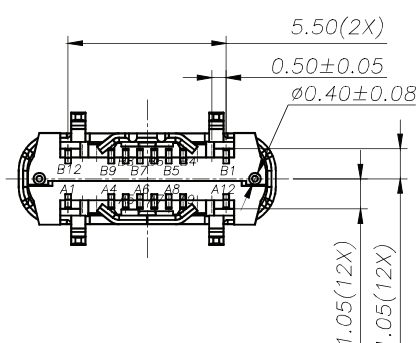
units: mm
 tolerance:
 X.X ± 0.30 mm
 X.XX ± 0.20 mm
 X.XXX ± 0.10 mm
 unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
housing	LCP (UL94V-0)	black
contact	C1815	contact area: 3 μ " gold over 50 μ " nickel solder area: 3 μ " gold over 50 μ " nickel
mid plate	stainless steel	clear
front shell	stainless steel	30 μ " nickel



FEMALE AND MALE MATCHING DRAWING



SECTION:A-A

MECHANICAL DRAWING (CONTINUED)

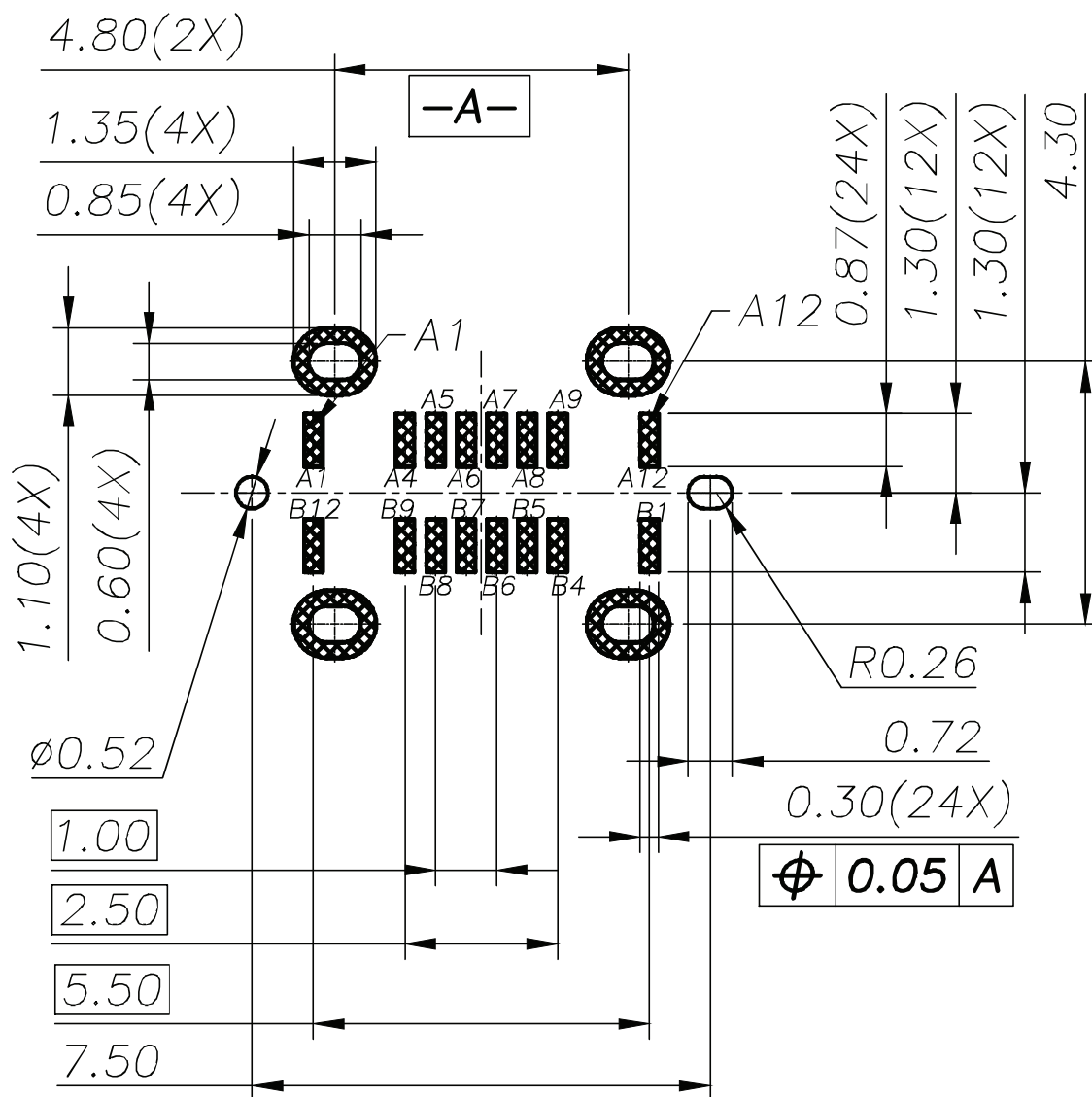
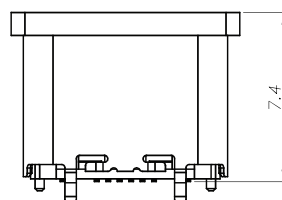
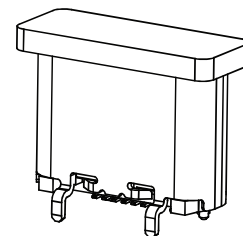
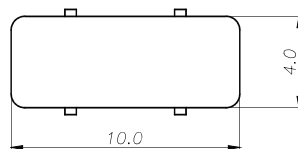
units: mm

PCB tolerance: ± 0.05 mm

PCB thickness: 0.8 mm

PIN CONNECTIONS			
PIN	SIGNAL NAME	PIN	SIGNAL NAME
A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	D+	B7	D-
A7	D-	B6	D+
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND

with cover:

Recommended PCB Layout
Top View

PACKAGING

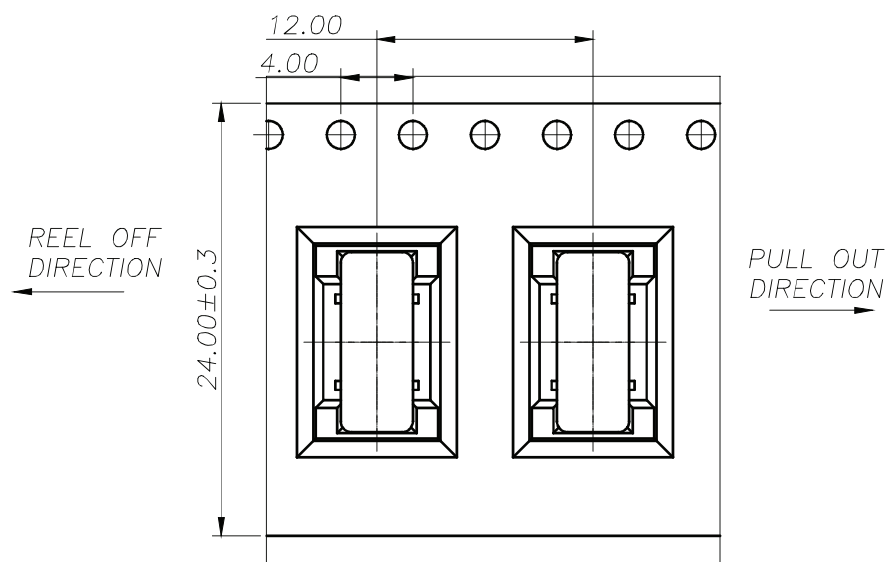
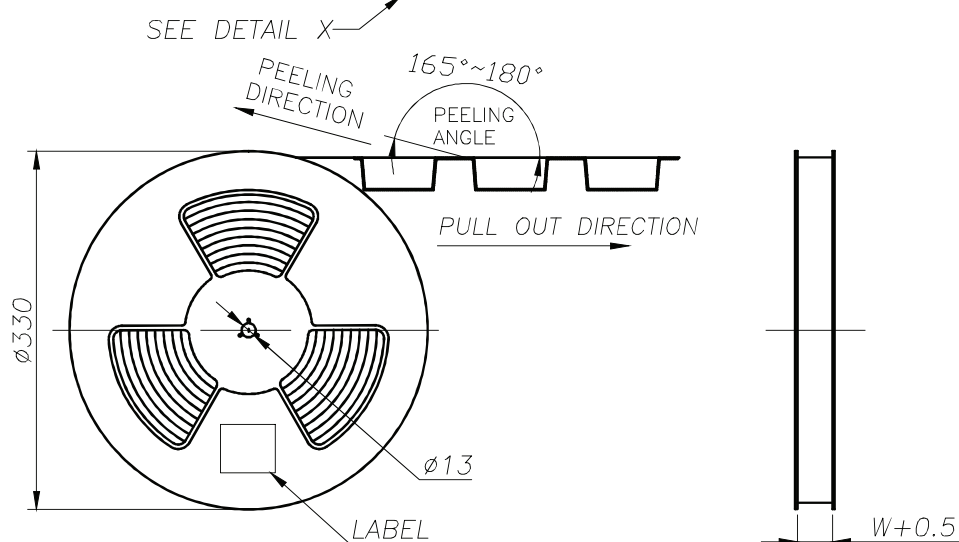
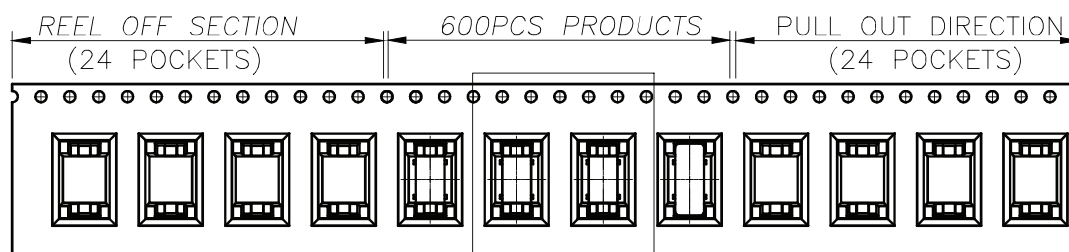
units: mm

Reel Size: Ø330

Reel QTY: 600 pcs per reel

Carton Size: 340 x 340 x 320 mm

Carton QTY: 6,000 pcs



REVISION HISTORY

rev.	description	date
1.0	initial release	07/25/2024

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[CUI Devices:](#)

[UJ20-C-V-G-SMT-P16-TR](#)