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MODEL: UP32-1-C-V-G1-SMT-T-P24-TR | DESCRIPTION: USB PLUG

FEATURES

- USB Type C plug
- USB 3.2 Gen 1
- 5 Gbit/s data transfer speed
- reflow solder compatible
- tape & reel packaging

RoHS

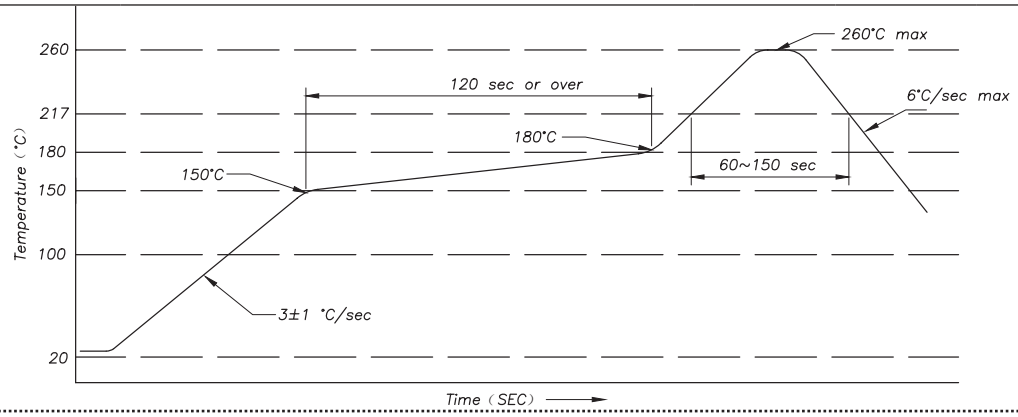
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
USB standard	USB 3.2 Gen 1				
rated input voltage				20	Vdc
rated input current	as per EIA-364-70, Method B power pins collectively (A1, A4, A9, A12, B1, B4, B9, B12) VCONN pins individually (A5, B5) all other signal pins individually			 3.0 1.25 0.25	 A A 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.

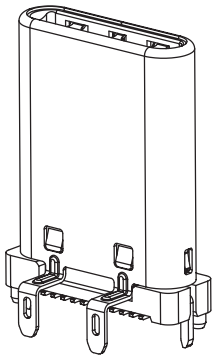
SOLDERABILITY

parameter	conditions/description	min	typ	max	units
reel storage	at 20~30°C, 40~75% humidity				
reflow soldering	see reflow profile			260	°C

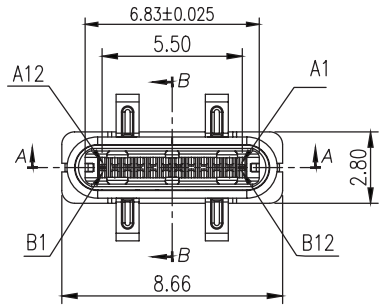


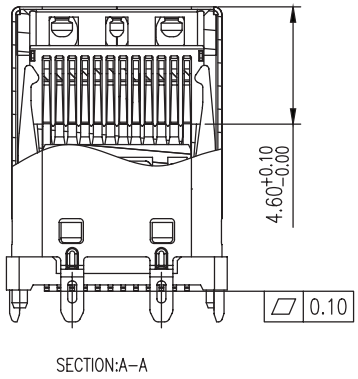
MECHANICAL DRAWING

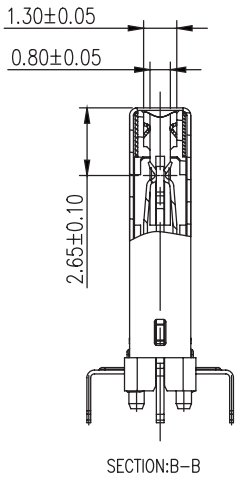
units: mm
tolerance:
X.X ±0.30 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
unless otherwise specified

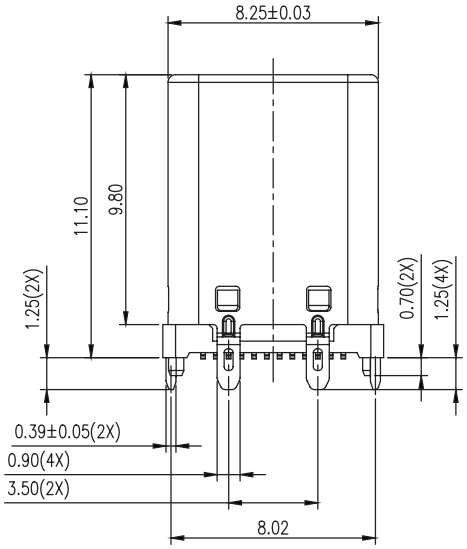


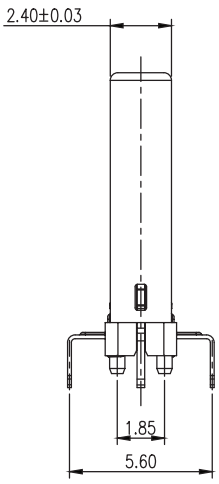
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	LCP (UL94V-0)	black
contact	C7025	contact area: 1 µ" gold over 30 µ" nickel solder area: 80 µ" tin over 30 µ" nickel
shell	SUS304	30 µ" nickel
latch	SUS301	80 µ" tin over 50 µ" nickel
spring	SUS304	--

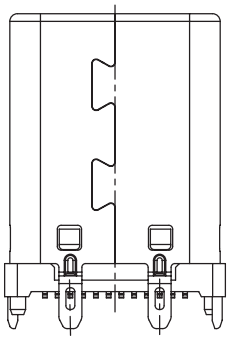


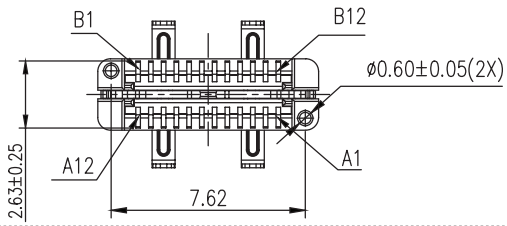








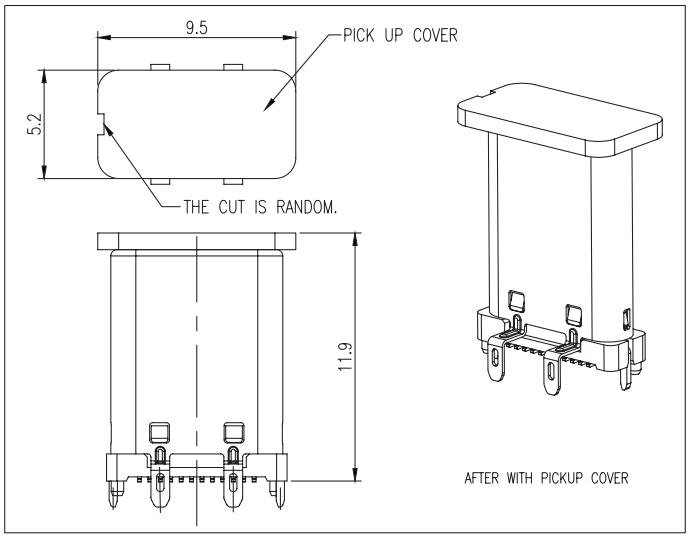


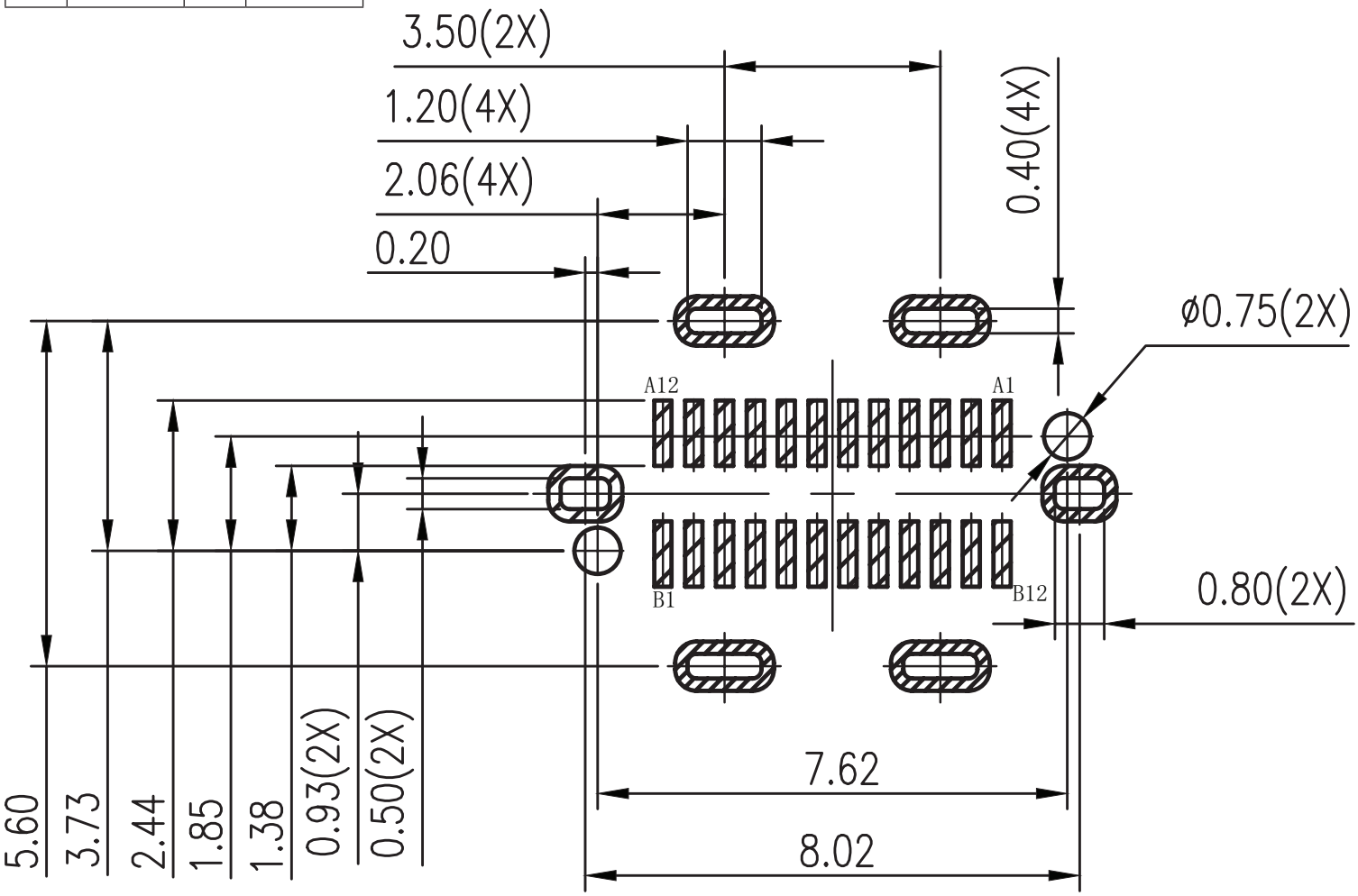


MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ±0.05 mm
PCB thickness: 0.8 mm

PIN CONNECTIONS			
PIN	SIGNAL NAME	PIN	SIGNAL NAME
A1	GND	B12	GND
A2	SSTXp1	B11	SSRXp1
A3	SSTXn1	B10	SSRXn1
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A10	SSRXn2	B3	SSTXn2
A11	SSRXp2	B2	SSTXp2
A12	GND	B1	GND



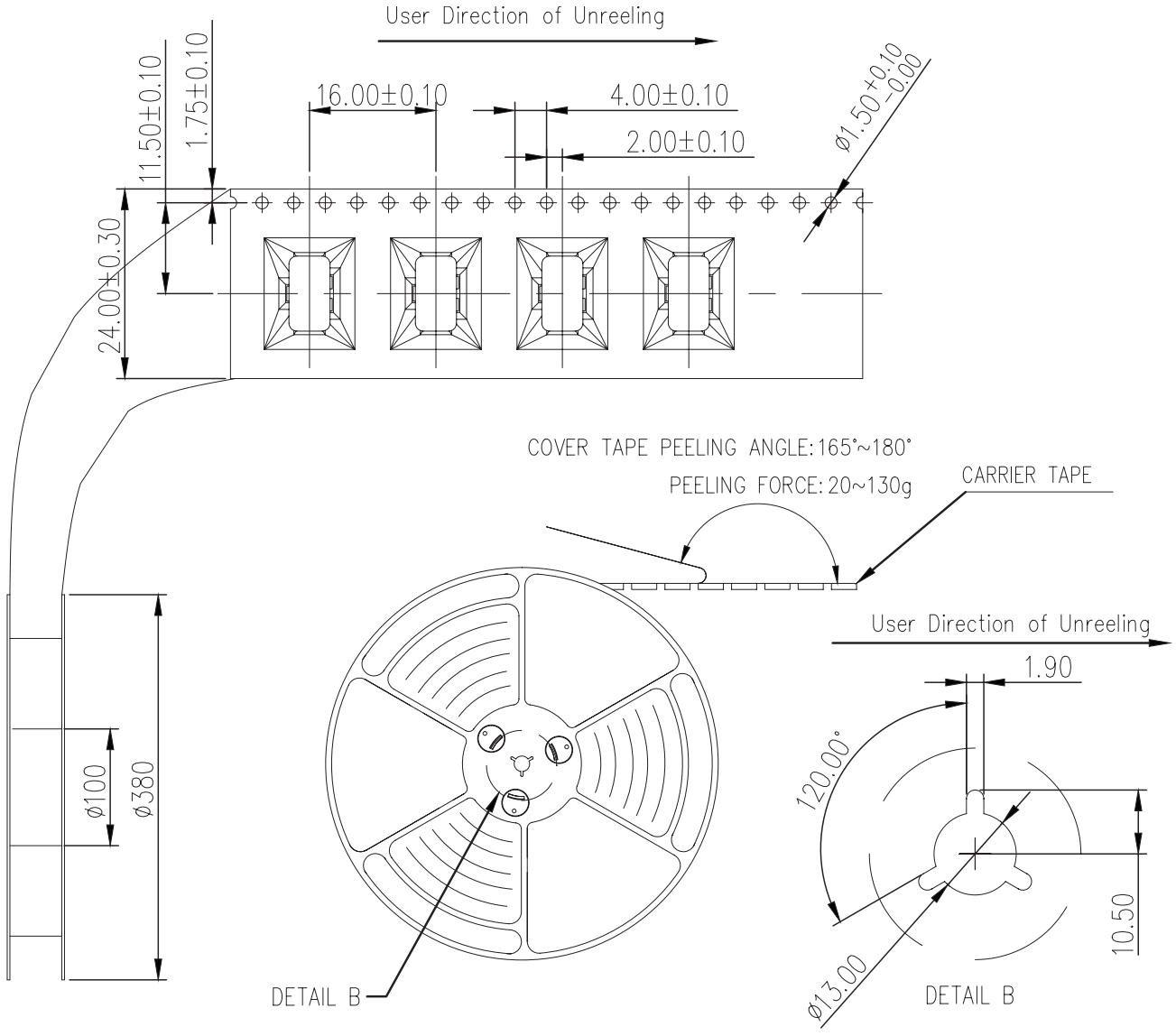


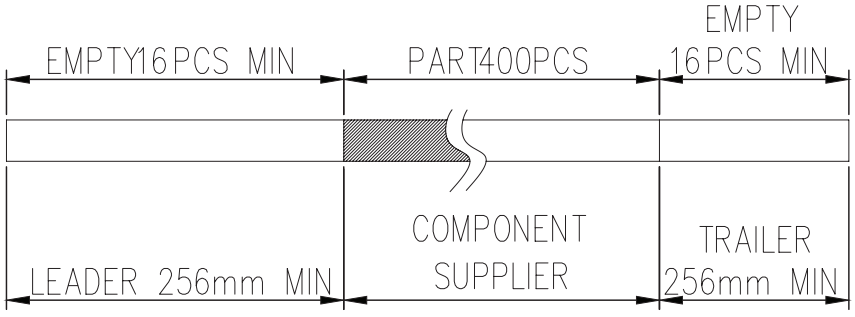
Recommended PCB Layout
Top View

PACKAGING

units: mm

Reel Size: Ø380 mm
Reel QTY: 400 pcs per reel
Carton Size: 395 x 395 x 320 mm
Carton QTY: 4,000 pcs





REVISION HISTORY

rev.	description	date
1.0	initial release	11/03/2025

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

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