CUI DEVICES

date 06/15/2022

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DESCRIPTION: USB RECEPTACLE MODEL: UJ32-C-H-G-L2-SMT-TR

FEATURES

- USB Type C receptacle
- USB 3.2 Gen 2x2
- 20 Gbit/s data transfer speed
- reflow solder compatible
- tape & reel packaging





SPECIFICATIONS

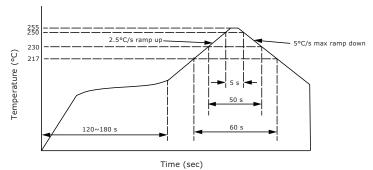
parameter	conditions/description	min	typ	max	units
USB standard	USB 3.2 Gen 2x2				
rated input voltage				20	Vdc
rated input current	as per EIA-364-70, Method B power pins collectively (A1, A4, A9, A12, B1 VCONN pins individually (A5, B5) all other signal pins individually	, B4, B9, B12)		5.0 1.25 0.25	A A A
contact resistance ¹	between terminals and mating plug			40	mΩ
insulation resistance	between adjacent contacts	100			МΩ
voltage withstand	between adjacent contacts	100			Vac
insertion force	at a rate of 12.5 mm/min	5		20	N
withdrawal force	at a rate of 12.5 mm/min	8		20	N
life	at a rate of 200 cycles per hour		10,000		cycles
operating temperature		-40		85	°C
flammability rating	UL94V-0				
RoHS	yes				

Note:

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

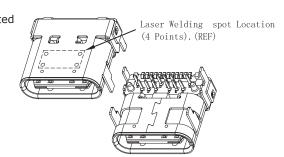
3. It is recommended to reflow solder within 3 months from opening vacuum packaging at a temperature of 25~30°C & relative humidity 65~70%.



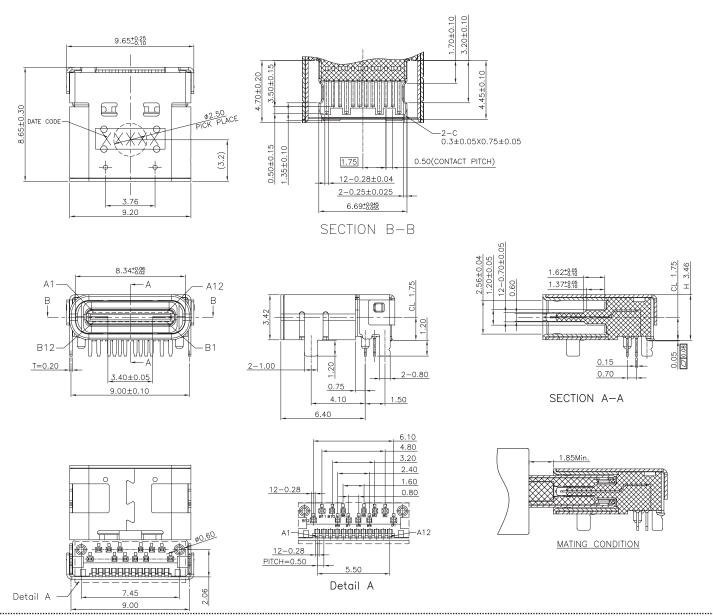
^{1.} When measured at 20 mV / 100 mA. 2. All specifications measured at $10\sim35^{\circ}$ C, humidity at $45\sim85\%$, under standard atmospheric pressure, unless otherwise noted.

MECHANICAL DRAWING

units: mm tolerance: $X. \pm 0.50 \text{ mm}$ $X.X \pm 0.30 \text{ mm}$ $X.XX \pm 0.20 \text{ mm}$ $X.XXX \pm 0.10 \text{ mm}$ unless otherwise noted



	MATERIAL	PLATING
insulator	LCP (UL94V-0)	black
contact	copper alloy	contact area: gold flash solder area: matte tin over nickel
shell	stainless steel	nickel
cover shell	copper alloy	nickel
inner ground cover shell	stainless steel	nickel
mid plate	stainless steel	clean

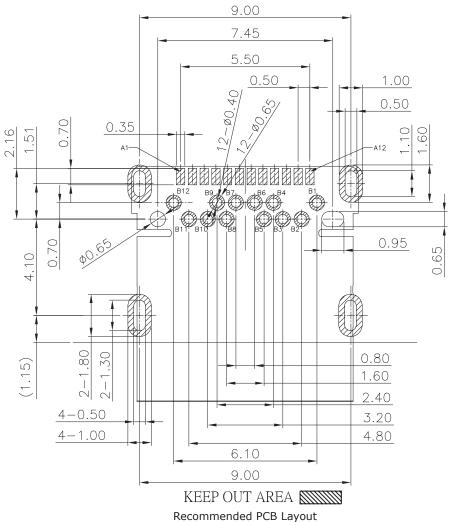


MECHANICAL DRAWING (CONTINUED)

units: mm

PCB tolerance: ±0.05 mm PCB thickness: 1.0 mm

	PIN CONNECTIONS					
PIN	SIGNAL NAME	MATING SEQUENCE	PIN	SIGNAL NAME	MATING SEQUENCE	
A1	GND	FIRST	B12	GND	FIRST	
A2	SSTXp1	SECOND	B11	SSRXp1	SECOND	
A3	SSTXn1	SECOND	B10	SSRXn1	SECOND	
A4	VBUS	FIRST	В9	V _{BUS}	FIRST	
A5	CC1	SECOND	В8	SBU2	SECOND	
A6	Dp1	SECOND	В7	Dn2	SECOND	
A7	Dn1	SECOND	В6	Dp2	SECOND	
A8	SBU1	SECOND	B5	CC2	SECOND	
A9	V _{BUS}	FIRST	В4	V _{BUS}	FIRST	
A10	SSRXn2	SECOND	В3	SSTXn2	SECOND	
A11	SSRXp2	SECOND	B2	SSTXp2	SECOND	
A12	GND	FIRST	B1	GND	FIRST	
SHELL		GND	SHELL		GND	



Top View

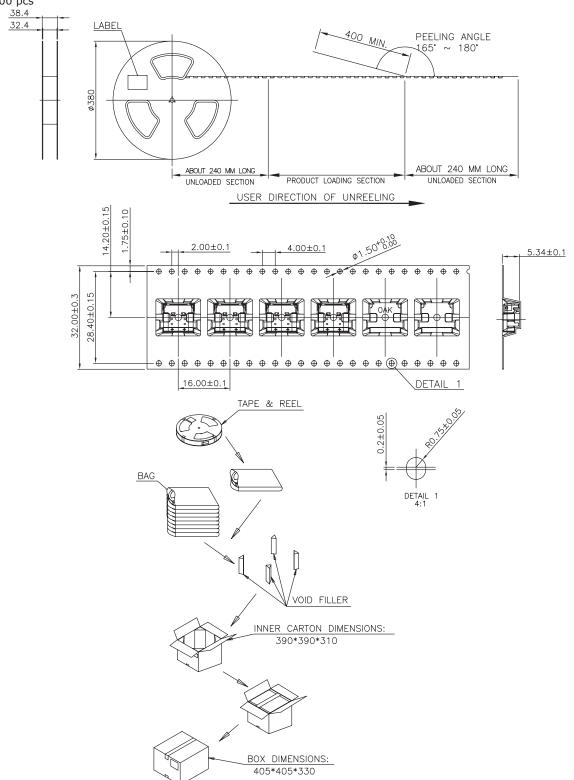
PACKAGING

units: mm

Reel Size: Ø380 mm

Reel QTY: 1,000 pcs per reel Carton Size: 405 x 405 x 330 mm

Carton QTY: 8,000 pcs



Additional Resources: Product Page

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REVISION HISTORY

rev.	description	date
1.0	initial release	06/15/2022

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

CUI DEVICES

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