

date 01/30/2018

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MODEL: UJ31-CH-3-SMT-TR | DESCRIPTION: USB RECEPTACLE

FEATURES

- USB Type C receptacle
- USB 3.1
- 10 Gbit/s data transfer speed
- reflow solder compatible
- tape & reel packaging





SPECIFICATIONS

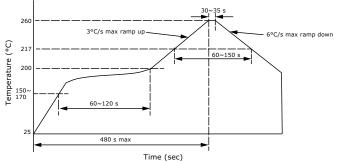
parameter	conditions/description	min	typ	max	units
rated input voltage				20	Vdc
rated input current	as per EIA-364-70, Method B power pins collectively (A4, A9, B4, B9) GND pins collectively (A1, A12, B1, B12) VCONN pins individually (A5, B5) all other signal pins individually			5.0 6.25 1.25 0.25	A A A
contact resistance ¹	between terminals and mating plug			40	mΩ
insulation resistance	at 100 Vdc for 1 minute between adjacent contacts	100			MΩ
voltage withstand	at 60 Hz for 1 minute 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 max cycles per hour		10,000		cycles
operating temperature		-30		85	°C
storage temperature		-40		85	°C
flammability rating	UL94V-0				
RoHS	2011/65/EU				

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

SOLDERABILITY

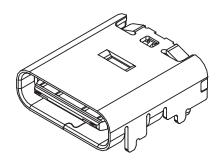
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <60%			30	°C
reflow soldering ²	see reflow profile	255	260	265	°C

Note: 2. It is recommended to reflow solder within 168 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.

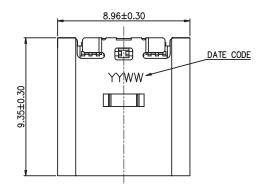


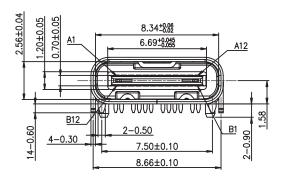
MECHANICAL DRAWING

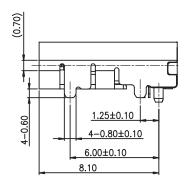
units: mm tolerance: $X.X \pm 0.2 mm$ $X.XX \pm 0.15 mm$

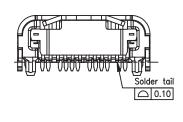


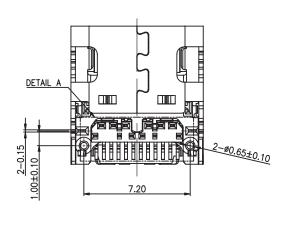
	MATERIAL	PLATING
contact terminals	copper alloy	contact: 3 μ" gold
shell	stainless steel	nickel
mid plate	stainless steel	tin
insulator	PA9T	

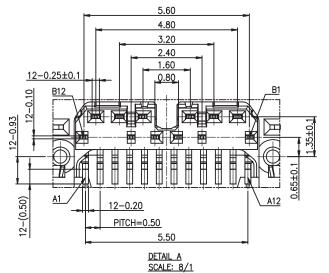








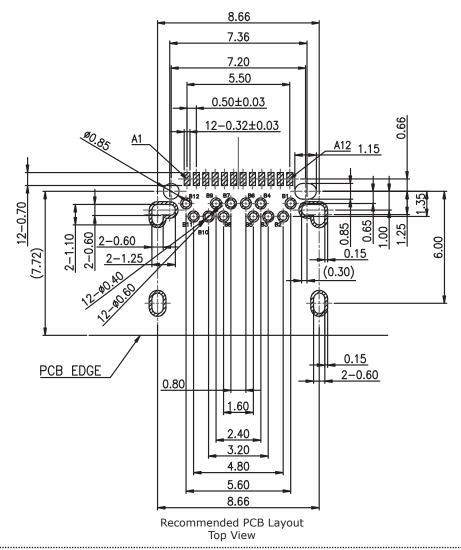




MECHANICAL DRAWING (CONTINUED)

units: mm PCB tolerance: ±0.05 mm

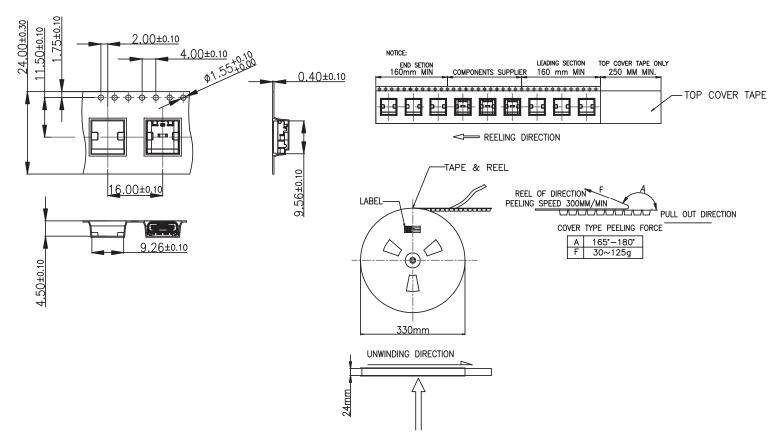
	PIN CONNECTIONS					
PIN	SIGNAL NAME	MATING SEQUENCE	PIN	SIGNAL NAME	MATING SEQUENCE	
A1	GND	FIRST	B12	GND	FIRST	
A2	SSTXp1	SECOND	B11	SSRXp1	SECOND	
А3	SSTXn1	SECOND	B10	SSRXn1	SECOND	
A4	V _{BUS}	FIRST	В9	V _{BUS}	FIRST	
A5	CC1	SECOND	В8	SBU2	SECOND	
A6	Dp1	SECOND	В7	Dn2	SECOND	
A7	Dn1	SECOND	В6	Dp2	SECOND	
A8	SBU1	SECOND	B5	CC2	SECOND	
A9	V _{BUS}	FIRST	B4	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			



PACKAGING

units: mm

Reel Size: Ø330 mm Reel QTY: 850 pcs per reel



REVISION HISTORY

rev.	description	date
1.0	initial release	12/19/2017
1.01	updated datasheet	01/30/2018

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



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

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