

date 01/30/2018

page 1 of 5

MODEL: UJ31-CH-G1-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	Vac
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	between adjacent contacts	100			MΩ
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 500 ± 50 cycles per hour		10,000		cycles
operating temperature		-25		85	°C
flammability rating	UL94V-0				
RoHS	2011/65/EU				

Note:

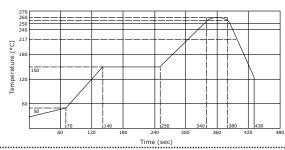
- 1. When measured at 20 mV / 100 mA.
- 2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <80%			40	°C
reflow soldering ³	see reflow profile	255	260	265	°C
drying conditions ⁴	parts in reel: bake at 40°C ±5°C for 72 hours parts removed from reel: bake at 40°C ±5°C for 10 hours				

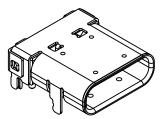
Note:

- 3. It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
- It is recommended to reflow solder with
 When exceeding floor life by >72 hours.

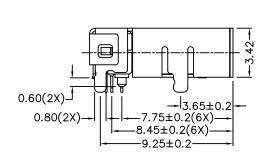


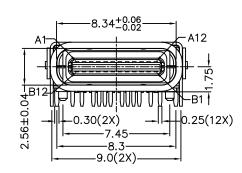
MECHANICAL DRAWING

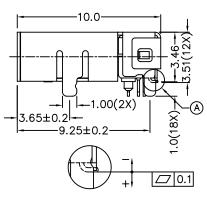
units: mm tolerance: $X.X \pm 0.2 \text{ mm}$ $X.XX \pm 0.10 \text{ mm}$ $X.XXX \pm 0.050 \text{ mm}$



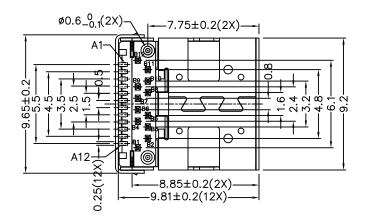
	MATERIAL	PLATING
contact terminals	copper alloy	contact: gold flash solder: gold flash
shell	brass	nickel
cover shell	stainless steel	nickel
inner ground cover shell	stainless steel	
mid plate	stainless steel	nickel
insulator	PA10T	







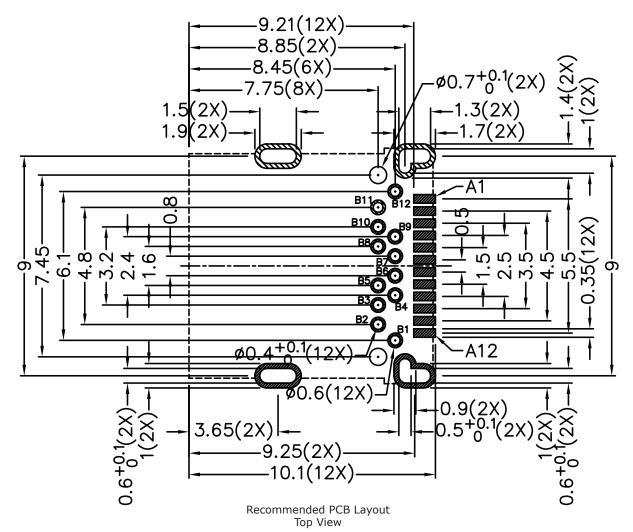
A DETAIL COPLANARITY



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	В5	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	

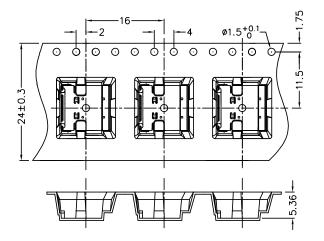


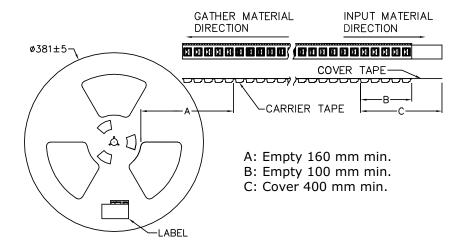
PACKAGING

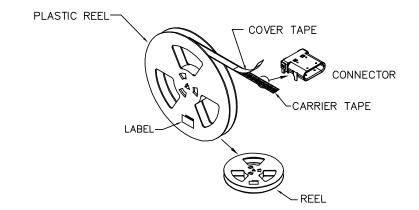
units: mm

Reel Size: Ø381 mm

Reel QTY: 1,050 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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