

MODEL: UP31-CV-G-CM | **DESCRIPTION:** USB PLUG

FEATURES

- USB Type C plug
- USB 3.1
- 10 Gbit/s data transfer speed
- reflow solder compatible



SPECIFICATIONS

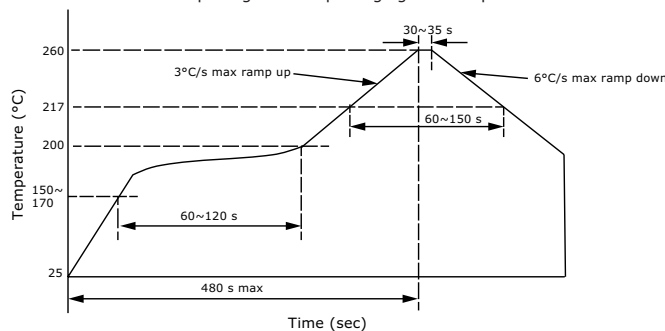
parameter	conditions/description	min	typ	max	units
rated input voltage				20	Vdc
rated input current	as per EIA-364-70, Method B				
	power pins collectively (A4, A9, B4, B9)			5.0	A
	GND pins collectively (A1, A12, B1, B12)			6.25	A
	VCONN pins individually (A5, B5)			1.25	A
	all other signal pins individually			0.25	A
contact resistance ¹	between terminals and mating plug			40	mΩ
insulation resistance	at 100 Vdc 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

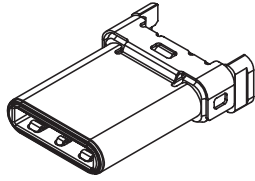
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <60%			30	°C
reflow soldering ²	see reflow profile	255	260	265	°C

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

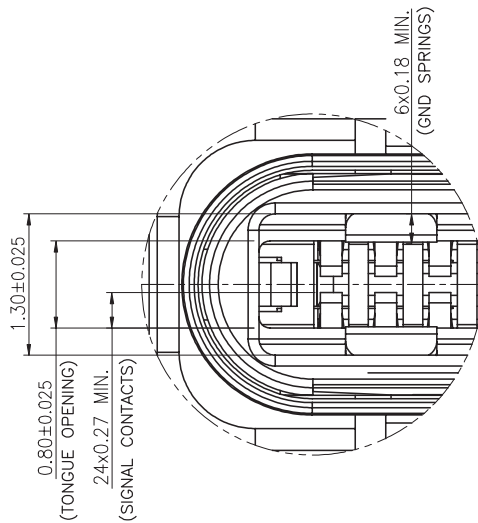
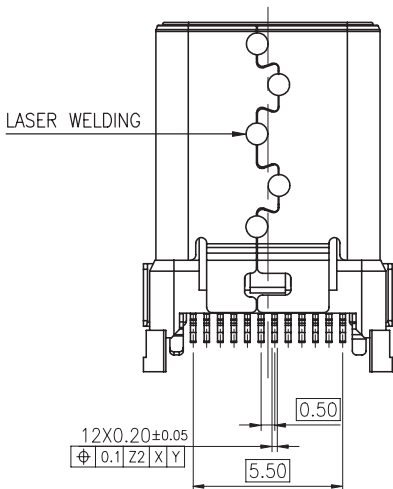
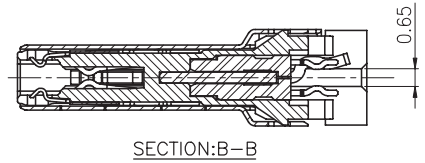
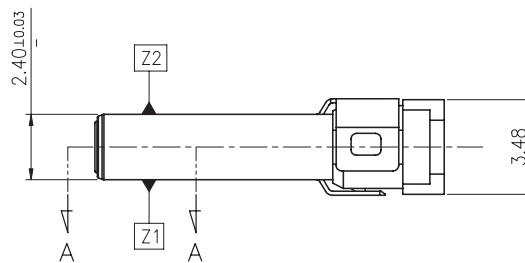
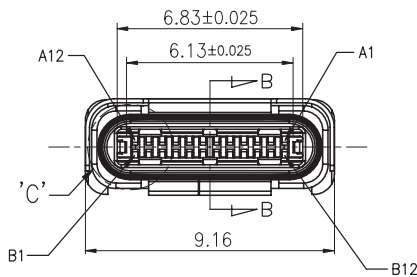
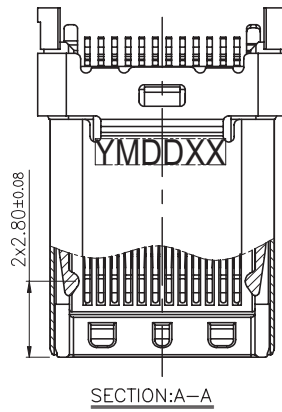
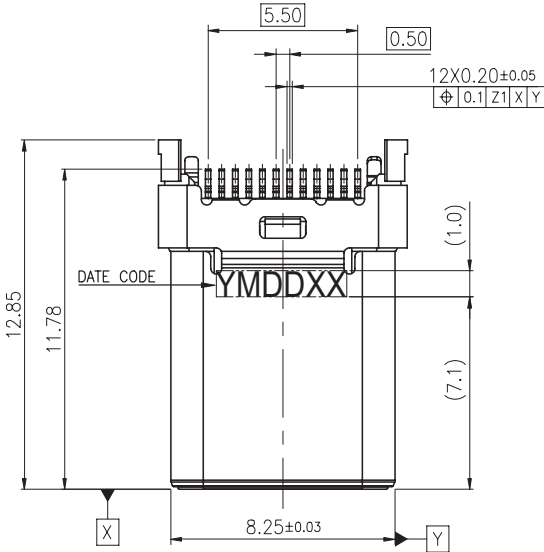


MECHANICAL DRAWING

units: mm
 tolerance:
 X.X ±0.2 mm
 X.XX ±0.15 mm



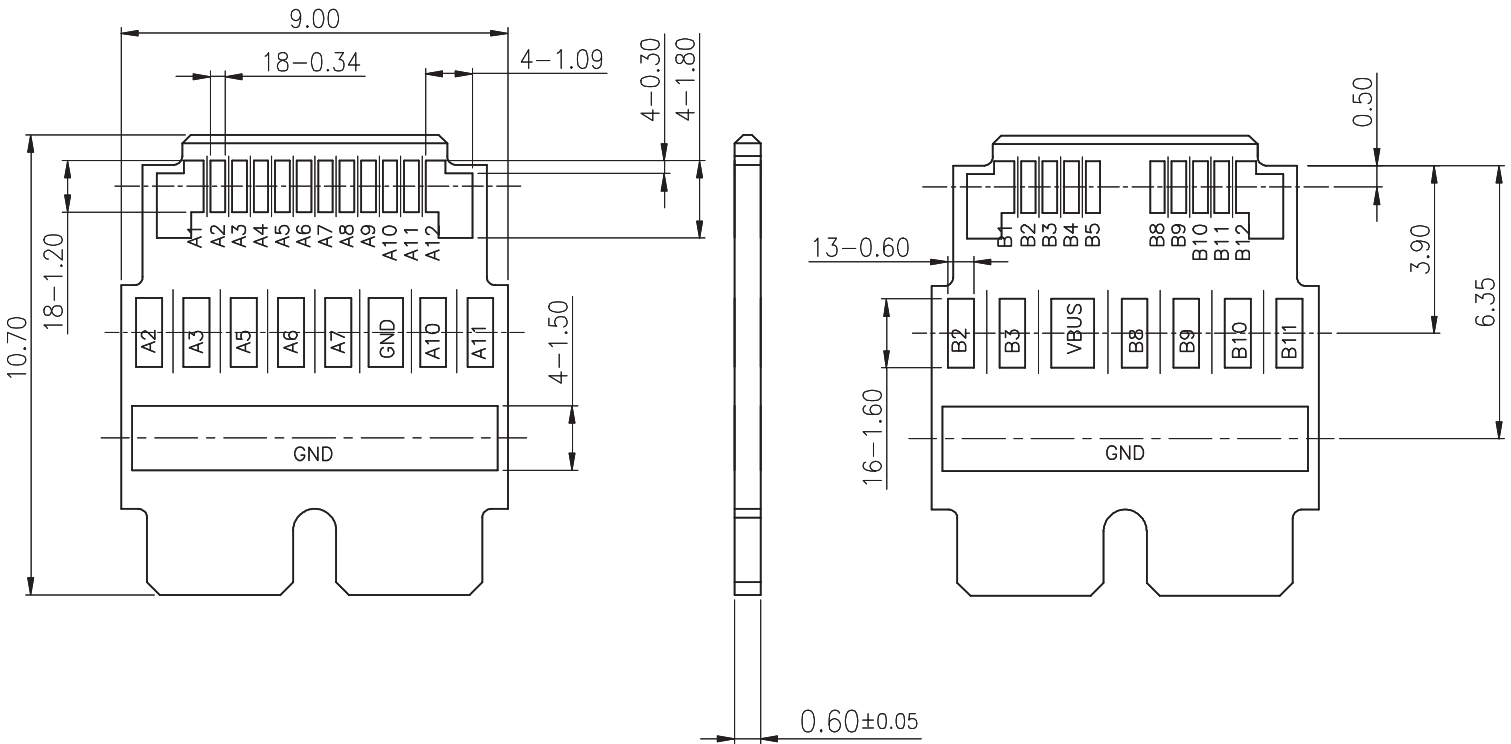
	MATERIAL	PLATING
contact terminals	copper alloy	contact: 2 μ" gold
ground spring	stainless steel	
shell	stainless steel	nickel
latch	stainless steel	nickel
insulator	silicone adhesive	
internal body	LCP	
housing	PA9T	



MECHANICAL DRAWING (CONTINUED)

units: mm
PCB tolerance: ± 0.05 mm

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



Recommended PCB Layout
Top View

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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