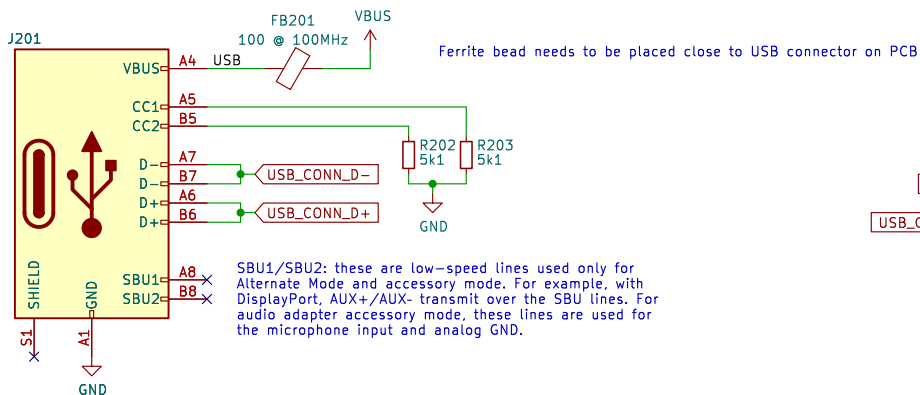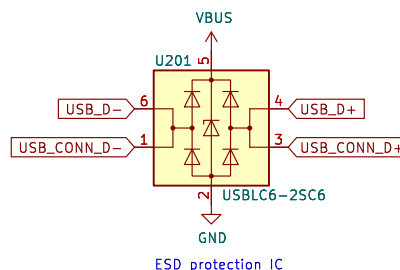The device must have 5.1k pull—down on the its port CC pin (on both pins).
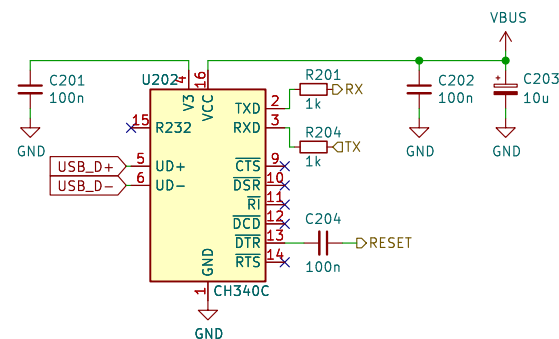
Once the C—C cable is connected between two link partners, the DFP (host)
will sense the drag by 5.1k resistor (from device side). As result, it will turn the VBUS on.
This is how a host recognizes that a connection has been made.
The connect event is essentially controlled by sink side having 5.1k Rd.

CH340C USB—UART IC

FB201
100 @ 100MHz

VBUS

Ferrite bead needs to be placed close to USB connector on PCB

J201

VBUS	A4	USB
CC1	A5	
CC2	B5	
D—	A7	
D—	B7	USB_CONN_D—
D+	A6	
D+	B6	USB_CONN_D+

R202 5k1   R203 5k1

GND

SHIELD

GND

| SBU1 | A8 |
| SBU2 | B8 |

S1   A1

GND

SBU1/SBU2: these are low—speed lines used only for
Alternate Mode and accessory mode. For example, with
DisplayPort, AUX+/AUX- transmit over the SBU lines. For
audio adapter accessory mode, these lines are used for
the microphone input and analog GND.

Shield is grounded at the host side (PC) so NC here.

VBUS

U201

| USB_D— | 6 | | 4 | USB_D+ |
| USB_CONN_D— | 1 | | 3 | USB_CONN_D+ |

USBLC6—2SC6

GND

ESD protection IC

C201
100n

GND

U202

V3		VCC	16	
R232	15	TXD	2	R201 1k	RX
		RXD	3	R204 1k	TX
UD+	5	CTS	9	
UD—	6	DSR	10	
		RI	11	
		DCD	12	
		DTR	13	C204 100n	RESET
		RTS	14	

USB_D+
USB_D—

GND   CH340C

GND

R201 1k   RX

R204 1k   TX

C202
100n

GND

C203
10u

VBUS

GND