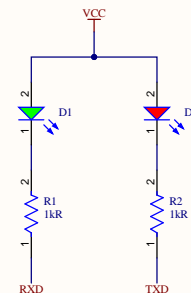
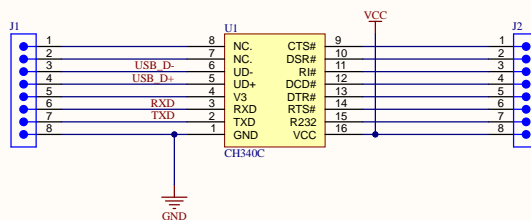
















THIS DOCUMENT AND THE DATA DISCLOSED HEREIN OR
HEREWITH IS THE PROPERTY OF ALTUM LIMITED AND MAY
BE FREELY DISTRIBUTED IN WHOLE. NO RIGHTS ARE
RESERVED OR EXPRESS OR IMPLIED WARRANTY GIVEN.



PROJECT NAME ApolloEcho_Dev_Kit		AUTHOR mtnguyen	
TITLE USB Serial			
Rev. 1.0.0	Date Dec 03, 24		
FILE NAME usb_serial_daughter.SchDoc		SHEET 1 OF 1	

Comment	Description	Designator	Footprint	LibRef	Quantity	Value	Manufacture	Manufacturer	Manufacturer Packaging 1	Manufacturer P/N	Manufacturer Part Number	Manufacturer URL
0402ZD104KAT2A	General Purpose Ceramic Capacitor, 0402, 100nF, 10%, X5R, 15%, 10V	C1	FP-0402-L_1_0_1-W_0_5_0_1-IPC_C	OMP-2008-02878-3	1							
BMK105BU105KV-F	None	C2	FP-0402-L_1_0_0_05-W_0_5-IPC_A	OMP-14477-000104-2	1							
150060VS75000	WURTH ELEKTRONIK - 150060VS75000 - LED, Green, SMD, 0603, 30 mA, 2 V, 570 nm	D1	WL-SMCW_0603_150060xx75000	OMP-1426-00006-7	1							
150060RS75000	LED Low-Power Uni-Color Red 630nm 2V 2-Pin Chip 0603(1608Metric) T/R	D2	WL-SMCW_0603_150060xx75000	OMP-1426-00001-4	1							
61300811121		J1, J2	61300811121	OMP-1502-01076-3	2							
RMCF0402FT1K00	1kΩ ±1% 0.063W 0402 Thick Film Chip Resistor AEC-Q200 compliant	R1, R2	FP-RMCF0402-IPC_A	OMP-26527-000026-1	2							
ERJ2GEDR00X	Chip Resistor, 0 Ohm, 0.1 W, -55 to 155 degC, 0402 (1005 Metric), RoHS, Tape and Reel	R3	RESC1005X40X25LL05T05	OMP-2000-07451-1	1			Panasonic				http://www.panasonic.com/
CH340C	USB to Serial CH340 IC	U1	CH340C	CH340C	1							

Board Stack Report

Stack Up		Layer Stack			
Layer	Board Layer Stack	Name	Material	Thickness	Constant
1		Top Paste			
2		Top Overlay			
3		Top Mask	Solder Resist	0.015mm	3.8
4		Top Copper	Copper	0.035mm	
5		Dielectric 1	7628	0.200mm	4.6
6		Plane Layer 1 (GND)	Copper	0.018mm	
7		Core	FR-4	1.065mm	4.5
8		Plane Layer 2 (VCC)	Copper	0.018mm	
9		Dielectric 2	7628	0.200mm	4.6
10		Bottom Copper	Copper	0.035mm	
11		Bottom Mask	Solder Resist	0.015mm	3.8
12		Bottom Overlay			
13		Bottom Paste			
	Height : 1.600mm				

