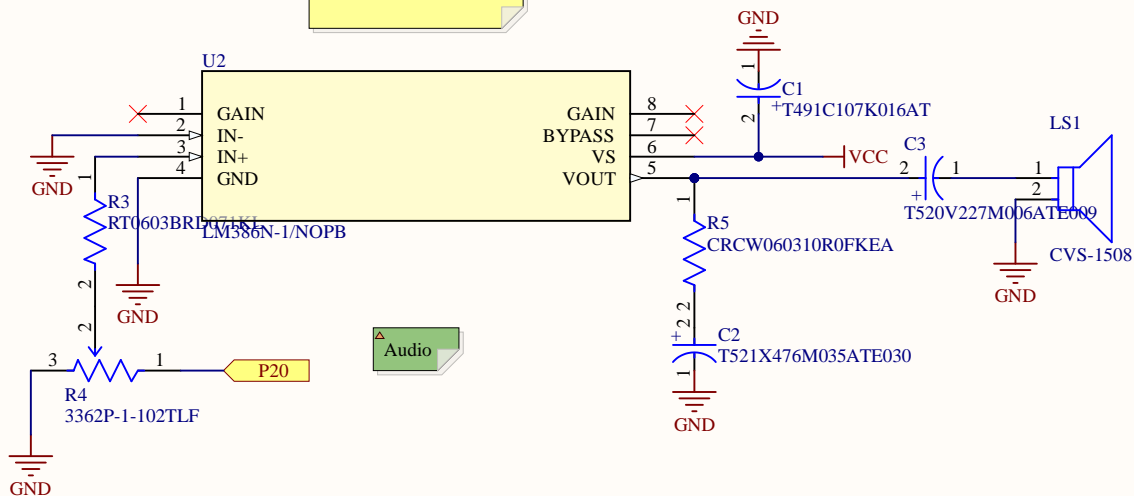


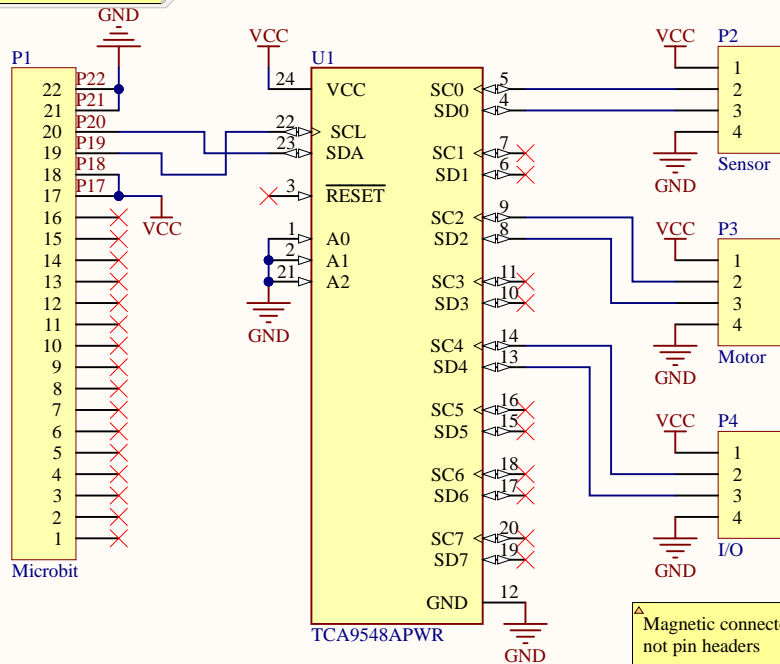
Confirm lm386 w
spencer



!!!DO NOT CONNECT
PIN 0 ON MICROBIT
HEADER!!! Shift mbit
connection up by 1 pin.

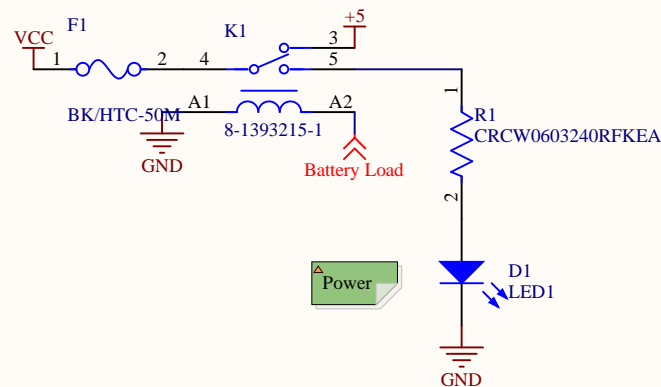
!!!USE
3.3V FOR
I2C!!!

Use LEDs
on mbit

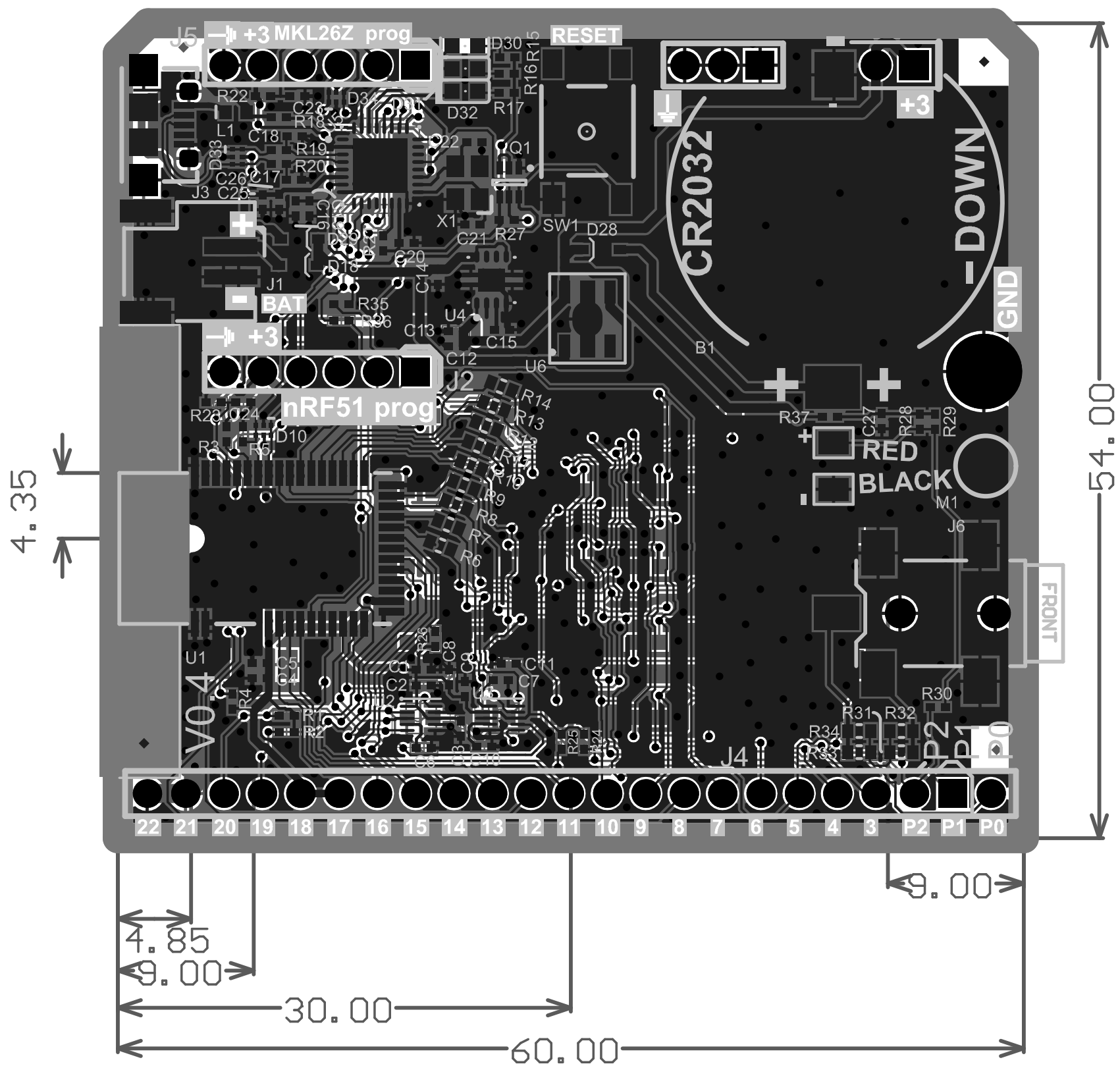


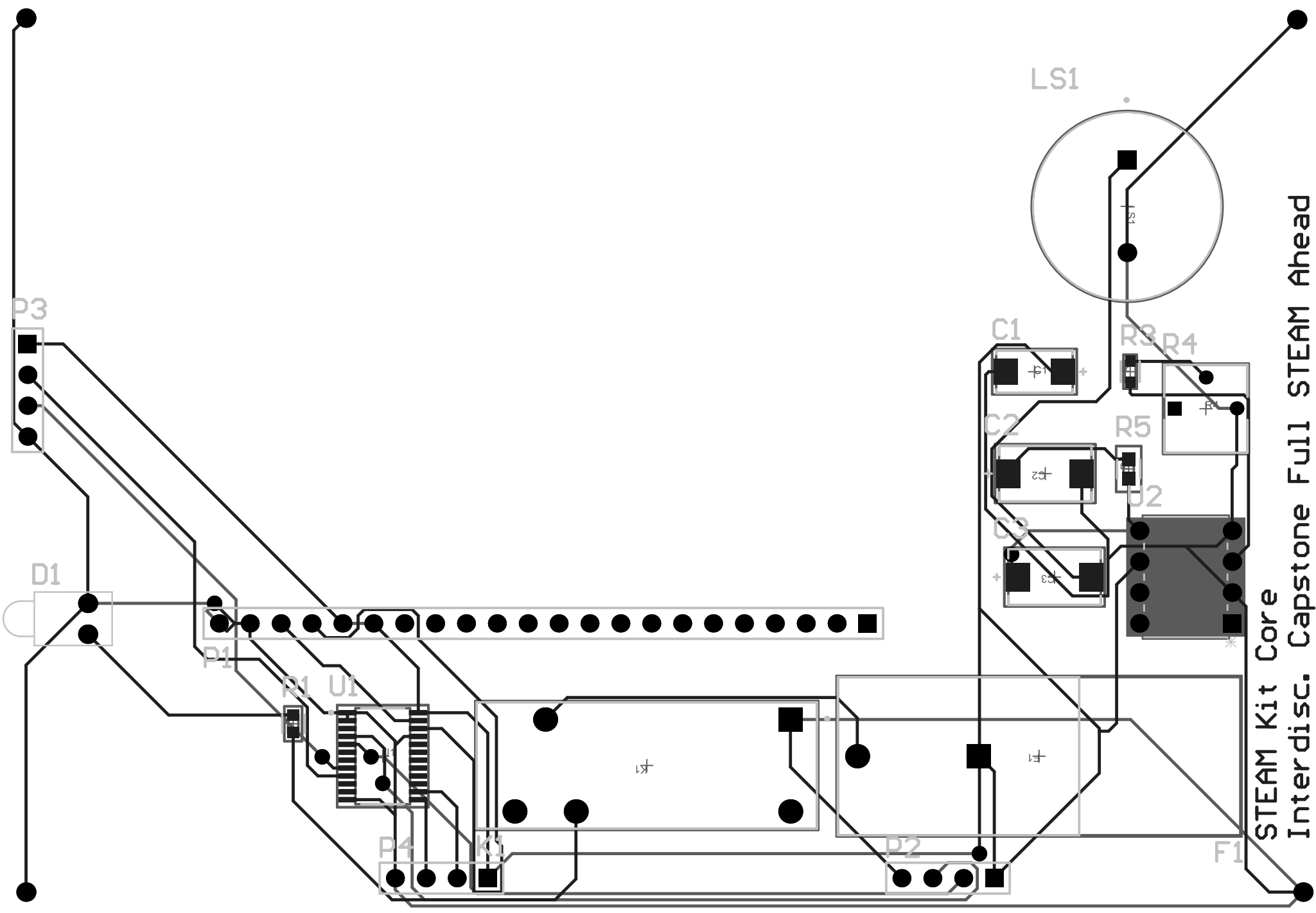
Magnetic connectors,
not pin headers

I2C



Title		
STEAM Kit Core PCB		
Size	Number	Revision
A	22.9.1.49	v2.0
Date:	10/05/2023	Sheet bf 1
File:	C:\Users\...\steam-kitv1.SchDoc	Drawn By: Erin Tan





STEAM Kit Core
Interdisc. Capstone Full STEAM Ahead

Line #	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	T491C10 7K016AT	CAP TANT 100UF 10% 16V 2312	C1		Unknown server		1	KEMET	T491C107K016AT	Volume Production	Newark	93X4687	1.05	1.05
	T521X47 6M035AT E030	CAP TANT POLY 47UF 35V 2917	C2		Unknown server		1	KEMET	T521X476M035ATE030	Volume Production	Avnet	96Y7534	3.62	3.62
	T520V22 7M006AT E009	CAP TANT POLY 220UF 6.3V 2917	C3		Unknown server		1	KEMET	T520V227M006ATE009	Volume Production	Arrow Electronics	T520V227M006ATE009	1.92	1.92
	LED1	Typical RED GaAs LED	D1		Not managed		1							
	BK/HTC- 50M	FUSE HOLDER CART 250V 6.3A PCB	F1		Unknown server		1	Eaton Bussmann	BK/HTC-50M	Volume Production	Arrow Electronics	BK/HTC-50M	10.86	10.86
	8- 1393215- 1	RELAY GEN PURPOSE SPDT 8A 24V	K1		Unknown server		1	TE Connectivity	8-1393215-1	Volume Production	Farnell	1197653	10.69	10.69
	CVS-1508	SPEAKER 8OHM 300MW TOP PORT 87DB	LS1		Unknown server		1	CUI	CVS-1508					
	Microbit	Header, 22-Pin	P1		Not managed		1							
	Sensor	Header, 4-Pin	P2		Not managed		1							
	Motor	Header, 4-Pin	P3		Not managed		1							
	I/O	Header, 4-Pin	P4		Not managed		1							
	CRCW06 03240RF KEA	RES Thick Film, 240Ω, 1%, 0.1W, 100ppm/°C, 0603	R1		Unknown server		1	Vishay	CRCW0603240RFKEA	Volume Production	Newark	52K8322	0.005	0.005
	RT0603B RD071KL	RES SMD 1K OHM 0.1% 1/10W 0603	R3		Unknown server		1	Yageo	RT0603BRD071KL	Volume Production	Newark	49AK4225	0.052	0.052
	3362P-1- 102TLF	TRIMMER 1K OHM 0.5W PC PIN TOP	R4		Unknown server		1	Bourns	3362P-1-102TLF	Volume Production	Digi-Key	3362P-1-102TLF-ND	3.11	3.11
	CRCW06 0310R0F KEA	RES Thick Film, 10Ω, 1%, 0.1W, 100ppm/°C, 0603	R5		Unknown server		1	Vishay	CRCW060310R0FKEA	Volume Production	Digi-Key	541-10.0HCT-ND	0.1	0.1
	TCA9548 APWR	IC I2C SW 8CH W/RESET 24TSSOP	U1		Unknown server		1	Texas Instruments	TCA9548APWR	Volume Production	Digi-Key	296-34905-1-ND	1.67	1.67
	LM386N- 1/NOPB	No Description Available	U2		Not managed		1							