Bill of Materials

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer	Alternate Part	PCB Footprint	Note
	14	C1, C2, C3, C6, C7, C9,	0.01uF, 100V, +/5%, X7R, 0603	CAP, CERM, 0.01uF, 100V, +/-	AVX	06031C103JAT2A	478-3700-1-ND		
		C10, C18, C19, C20, C21,	0.01d , 100V, 41-5/4, XTN, 0005	5%, X7R, 0603	ATA	00001010004124	470-0700-1-110		
		C27, C30, C31							
1								0603	
2	7	C4, C5, C8, C16, C17, C28, C29	4.7uF, 10V, +/-10%, X5R, 1206	CAP, CERM, 4.7uF, 10V, +/-10%, X5R, 1206	TDK	C3216X5R1A475K	445-1386-1-ND	1206	
	15	C11, C12, C13, C14, C15,	0.1uF, 25V, +/-10%, X7R, 0603	CAP, CERM, 0.1uF, 25V, +/-10%.	Verset	C0603X104K3RACTU	399.6345.1.ND	1206	
	15	C22, C23, C24, C25, C26,	0.10F, 25V, 4/-10%, A/R, 0003	X7R 0603	Names	CUBUSK TUHKSKAL TU	399-0345-1-ND		
3		C32 C33 C34 C35 C36		A7R, 0003				0603	
	30	D1. D2. D3. D4. D5. D6.	LED. White, SMD	LED. White, SMD	OSRAM	LW-W5SM	475-1263-1-ND		
		D7, D8, D9, D11, D12, D13,							
		D14, D15, D16, D17, D18,							
		D19, D21, D22, D23, D24,							
		D25, D26, D27, D28, D29,							
4		D31, D32, D33						SMD	
5	3	D10, D20, D30	200V, 3A, SMB	Diode, Schottky, 200V, 3A, SMB	ON Semiconductor	MBRS3200T3G	MBRS3200T3GOSTR- ND	SMB	
- 3	3	FID1, FID2, FID3		Fiducial mark. There is nothing to	N/A	N/A	NU	SINID	
6	3	PID1, PID2, PID3		hav or mount	No.	N/A			
	4	H1, H2, H3, H4		Machine Screw, Round, #4-40 x	B&F Fastener Supply	NY PMS 440 0025 PH	H542.ND		
7	7	111,112,113,114		1/4. Nylon, Philips panhead	Dui Tassenei Ouppry	4111110 440 0020111	11342110		
8	4	H5, H6, H7, H8		Standoff, Hex, 0.5°L #4-40 Nylon	Keystone	1902C	1902CK-ND		
	1	J1	2POS, 3.81mm PCB	Conn Term Block, 2POS, 3.81mm	Phoenix Contact	1727010	277-1947-ND		
9		_		PCB					
	1	LBL1		Thermal Transfer Printable Labels,	Brady	THT-14-423-10	2065596		
				0.650° W x 0.200° H - 10,000 per					
10				ml		CRCW060310K0FKFA		0402	
	13	R1, R5, R6, R7, R11, R13,	10.0k ohm, 1%, 0.1W, 0603	RES, 10.0k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060310K0FKEA	541-10.0KHCT-ND		
11		R19, R20, R21, R25, R26, R27, R31						0603	
17	3	R2 R12 R22	20k ohm 5% 0.1W 0603	RES 20k ohm 5% 0.1W 0603	Vishay-Dale	CRCW060320K0.INFA	71-CRCW06031-20K-E3	0603	
	9	R3. R4. R8. R14. R15. R16.	25.2k ohm. 0.1%, 0.1W, 0603	RES. 25.2k ohm. 0.1%, 0.1W.	Yageo America	RT0603BRD0725K2L	7 1-01101103033-20K-E3		
13	_	R23. R24. R28	222222222	0603	- age		l	0603	
14	3	R9. R17. R29	1.2k ohm. 5%, 0.1W, 0603	RES. 1.2k ohm. 5%, 0.1W, 0603	Vishay-Dale	CRCW06031K20JNEA	541-1.2KGCT-ND	0603	
15	3	R10. R18. R30	100 ohm. 5%, 0.1W, 0603	RES. 100 ohm. 5%, 0.1W, 0603	Vishay-Dale	CRCW0603100RJNEA	541-100GCT-ND	0603	
	3	U1, U2, U3	TPS92630.O1	Three-Channel Linear LED Driver	Texas Instruments	TPS92630QPWPRQ1			
		01,02,00	11 032000 01	with Analog and PWM Dimming.	T GAMES INSTITUTION IN	III USAUSUGI WI INGI			
16	l	1		PWP0016F		l	l	TSSOP16	

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