

SOUTRA



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Bill of Materials for Project [2023002 A Soutra Velouria LED Controller PROJ.PrjPcb]

Source Data From: 2023002 A Soutra Velouria LED Controller PROJ.PrjPcb
Variant: None
Report Date: 29/11/2023 11:01

							Primary Supplier			Secondary Supplier			Alternative Part Details					JLC Stock Accepted?
Designator	Manufacturer Part Number	Value	Manufacturer	Footprint	Quantity	Notes	Supplier	Supplier Part Number	Pricing	Total Cost	Supplier 1	Supplier Part Number 1	Pricing 1	Total Cost	Alternative Part	Alternative Part Manufacturer	Alternative Part Supplier	Alternative Part Supplier Part Number
C1, C5, C6, C7, C8, C9	CC04020RVS88BEE105	1uF	Yageo	CAPC1005X06L	6		Farnell	1458856	10=0.039, 100=0.023	0.39	Digkey	311-1435-1-ND	1=0.08, 10=0.058, 50=0.034, 100=0.027	0.48	040220105KAT2A	KYOCERA AVX	Farnell	1740588
C2	GRM21BR61A478ME19K	47uF	Murata	CAPC2012X14L	1		Farnell	3790438	10=0.276, 100=0.207	2.76	Digkey	490-GRM21BR61A478ME19KCT-ND	1=0.53, 10=0.383, 50=0.28, 100=0.232	0.53	C2012XPR1A478M125AC	TDK	Farnell	2211186
C3	CL31A478MAD88NHE	47uF	Samsung	CC1206-PRC_C	1		Farnell	3013519	New Product - Unshipped Lead Time	0	Digkey	1276-1167-1-ND	1=0.24, 10=0.16, 50=0.118, 100=0.096	0.24	C1206CA78M9APCTU	KDMET	Farnell	1659002
C4	0402X104M180CT	100nF	Walsin Technologies	CAPC1005X06L	1		Farnell	2524808	10=0.0047, 100=0.0043	0.047	Digkey	1292-0402X104M180CT-ND	1=0.08, 10=0.023, 50=0.013, 100=0.01	0.08	B85012105016	WURTH	Farnell	2533933
C10	CD0603PK79R88B472	4.7nF	Yageo	CD0603-CA-PRC_C	1		Farnell	3764512	10=0.024, 100=0.014	0.24	Digkey	13-CD0603PK79R88B472CT-ND	1=0.08, 10=0.036, 50=0.02, 100=0.016	0.08	MC0803R472N300CT	Multicomp Pro	Farnell	1759098
D1, D3	NB060335HT1G		ON Semiconductor	SO0FL_2609100-2L	2		Farnell	2609300	5=0.158, 10=0.117, 100=0.0654	0.786	Digkey	NB060335HT1G050CT-ND	1=0.16, 10=0.11, 100=0.069	0.32	PHE030108EA115	NEOSPERA	Farnell	8737991
D2	ESDARVQ-1J		STMicroelectronics	SO0FL_250X117-2L	1		Farnell	2353667	5=0.0848, 10=0.0807, 100=0.0765	0.424	Rs	9172719	100=0.148	14.8	RSX101MM30TR	Rohm	Farnell	3214737
D4	BS12L		Multicomp Pro	SO0FL1370X120-2L	1		Farnell	3883703	5=0.089, 10=0.071, 100=0.051	0.445					LSI D286-PS-38	ASE CSRAM GROUP	Farnell	2575345
D5	MP050202		Multicomp	DI0C_0603_17050X06L	1		Farnell	3796313	5=0.0713, 10=0.0611, 100=0.0476	0.3565					MP001585	Multicomp Pro	Farnell	3285087
F1	MCCF0603TFF1		Multicomp	FUSC_1608X06L	1		Farnell	2649956	1=0.027 (GBP)	0.027								
J1	105017-0001		Molex	1050170001_USB-MICRO-B_V	1		Farnell	3500563	1=0.97	0.97	Rs	8486764	5=0.754, 75=0.67	3.77				
J2	N/A		N/A	SMT-PAD_2-Pad_1x21_004L	1	No part - solder pad only				0								
J3	N/A		N/A	SMT-PAD_3-Pad_2x5Y2-5P	1	No part - solder pad only				0								
J4	N/A		N/A	SMT-PAD_3-Pad_5x8YEP	1	No part - solder pad only				0								
L1	SRP4020TA-3R3M		Bourns	SRP4020TA-MFG	1		Farnell	2434803	5=0.543, 50=0.52	2.715	Digkey	SRP4020TA-3R3MCT-ND	1=1.04, 10=0.879, 25=0.799, 50=0.75, 100=0.623	1.04				
L2	XP181A135SPR-G		Torex	SOT89-150SP50X180-3L	1		Farnell	3534778	1=0.472, 10=0.413, 100=0.294	0.472	Mouser	865-XP181A135SPR-G	1=0.568, 10=0.453, 100=0.353					
Q2, Q3	RT0202N5GFRATR		Rohm	SO74577_56P280X1100-4L	2		Farnell	2769553	5=0.359, 10=0.286, 100=0.2	1.795					RT0202N5G20TR	Rohm	Farnell	3261754
R1, R9, R10, R22, R26	MC0803V90030R	0R	Multicomp	RESC_0603_1608X06L	5		Farnell	921682	10=0.007, 100=0.006	0.07					MC0803V9003 PTL	Multicomp Pro	Farnell	2447743
R2, R16, R23, R24, R25, R27, R29	RK07381JTD103J	10kR	KOA Speer	RESC_0603_1608X06L	7		Farnell	4000506	10=0.006, 100=0.003	0.09	Digkey	2019-RK07381JTD103JCT-ND	1=0.08, 10=0.012, 50=0.0078, 100=0.0064	0.56	RMC0903P110K0	Stackpole Electronics Inc	Digkey	RMC0903P110K0CT-ND
R11	CRCW0805100R9KTA	100R	Vishay Dale	RESC_0805_2013X03X06L120T20	1		Farnell	1652906	10=0.06, 100=0.026	0.6					CRCW0805100R9KTA	VISHAY	Farnell	1469882
R12	MC0803V90030R PTL	3.00R	Multicomp	RESC_0603_1608X06L	1		Farnell	2684817	10=0.011, 100=0.004	0.11					RK07381JTD103RFF	KOA	Farnell	3559881
R13	CR0603-FX-4902ELF	49.90R	Bourns	RESC_0603_1608X06L	1		Farnell	4014374	1=0.0871, 25=0.0148, 50=0.0105, 100=0.0081	0.0871	Digkey	118-CR0603-FX-4902ELFCT-ND	1=0.08, 10=0.012, 50=0.007, 100=0.006	0.08				
R14	RK07381JRTD1001F	10kR	KOA Speer	RESC_0603_1608X06L	1		Farnell	3533954	10=0.053, 100=0.02	0.53	Digkey	2019-RK07381JRTD1001FCT-ND	1=0.11, 10=0.052, 50=0.034, 100=0.0288	0.11	ERU03P120V	PANASONIC	Farnell	3579508
R15	CR0603V90030R	3.00R	Bourns	RESC_0603_2013X03X06L120T20	1		Farnell	2824733	10=0.218, 100=0.168	2.18	Dig Key	CR0603V90030R05ELFCT-ND	1=0.49, 10=0.277, 50=0.1988, 100=0.174	0.49	ERUBSFR10V	PANASONIC	Farnell	1717812
R17	CR04H805J330R	330R	TE Connectivity	RESC_0603_2013X03X06L120T20	1		Farnell	2331789	10=0.012	0.12	Rs	8075778P	100=0.012	12				
R18	RC0603PFL07150RL	150R	Yageo	RESC_0603_1608X06L	1		Farnell	9238387	10=0.011, 100=0.006	0.11	Digkey	311-150RCT-ND	1=0.08, 10=0.016, 50=0.009, 100=0.008	0.08	MC0803V90030R	Multicomp Pro	Farnell	2447295
R19	CR04H805P2K7	2.7k	TE Connectivity	RESC_0603_2013X03X06L120T20	1		Farnell	2330777	10=0.0381	0.381	Mouser	279-CR04H805P2K7	1=0.098, 10=0.065, 100=0.033	0.098	MC0803V90030R	Multicomp Pro	Farnell	9332375
R20	RC0402FR-0702KTL	2.7kR	Yageo	RESC_0402_1005X06X025L05T10	1		Farnell	9239286	10=0.008, 100=0.005	0.08	Digkey	311-2.70KLRCT-ND	1=0.08, 10=0.012, 50=0.007, 100=0.006	0.08	MC0804X2701FTL	Multicomp Pro	Farnell	2074044
BW1	ATTN0412-55NR		Microchip	SMT-PAD_2-Pad_2x5Y2-5P	1	N/A				0								
B2	SOIC127P66030200-4L		Microchip	SOIC127P66030200-4L	1		Farnell	3111843	1=0.468, 25=0.429, 100=0.339	0.469	Digkey	ATTN0412-55NRCT-ND	1=0.48, 25=0.437, 0.388	0.48				
L20	MCP1605S-EM5		Microchip	MSOP-M58_1L	1		Farnell	1850320	1=1.548	1.548	Digkey	MCP1605S-EM5-ND	1=1.54, 25=1.288, 100=1.228	1.54				
L6	LTC4055DCQFTRMP8F		Analog Devices / Linear Technology	DFN_0P200X020085_H5-7L	1		Farnell	4027894	1=0.14, 10=2.81, 25=2.67, 100=2.31	3.14	Digkey	505-LTC4055DCQFTRMP8FCT-ND	1=0.84, 10=2.64, 25=2.495, 100=2.162	2.84				
U4	AP0101CA-AVRD02		Diodes	SO725_56P280X140-5L	1		Farnell	3483011	5=0.318, 10=0.231, 100=0.165	1.59	Digkey	AP0101CA-AVRD02CT-ND	1=0.36, 10=0.28, 100=0.169	0.36				
U5	AP22802AWS-7		Diodes	SO725_56P280X140-5L	1		Farnell	3482850	5=0.152, 10=0.133, 100=0.11	0.76	Digkey	AP22802AWS-70CT-ND	1=0.37, 10=0.277, 25=0.25, 100=0.173	0.37				
U8	AP331AWRG-7		Diodes	SO725_56P280X140-5L	1		Farnell	3373792	5=0.295, 10=0.16, 100=0.098	1.295	Digkey	AP331AWRG0CT-ND	1=0.38, 10=0.28, 25=0.256, 100=0.176	0.38				
							TOTAL MAX COST PER BOARD (Primary Supplier Only):			24.996								

Note: - All prices in GBP
- Supplier minimum order amount assumed if number of components is less
- PLEASE CHOOSE CHEAPEST AVAILABLE COMPONENT CHOICE WHEN SOURCING

Total Number of Items: 52