

Component list

Bill of Materials Smart Monitoring of Air Quality SMAQ

Source Data From: SMAQ-Board_Design.BomDoc

Project: SMAQ-Board_Design.PrjPcb

Variant: None

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#	Category 1	Manufacturer 1	Manufacturer Part Number 1	Description	Quantity	Supplier 1	Supplier Part Number 1	Supplier Order Qty 1	Supplier Stock 1	Supplier Unit Price 1	Supplier Subtotal 1	Supplier Currency 1
1	Amplifiers - Op Amps, Buffer, Instrumentation	Texas Instruments	LM358DR	IC OPAMP GP 700KHZ 8SOIC	1	Mouser	595-LM358DR	1	10391	0.29	0.29	GBP
2	Amplifiers - Audio	Maxim	MAX98357AETE+T	IC AUDIO AMP CLASS D 16-TQFN	1	Mouser	700-MAX98357AETE+T	1	5567	1.82	1.82	GBP
3	Analog to Digital Converters (ADCs)	Texas Instruments	ADS1115IDGSR	IC ADC 16BIT 860SPS LP 10MSOP	1	Mouser	595-ADS1115IDGSR	1	13988	4.27	4.27	GBP
4	Sensors	AMPHENOL SGX SENSORTech	MICS-6814	SHUT HEIGHT GAGE(119.5MM)	1	Mouser	523-MICS-6814	1	708	14.70	14.70	GBP
5	Pressure Sensors	Bosch	BME280	Pressure, Temperature and Humidity Sensor Digital Output 1.8V 8-Pin LGA T/R	1	Mouser	262-BME280	1	17744	2.89	2.89	GBP
6	Sensors	Vishay Semiconductors	VCNL4010-GS08	SENS IR PROXIMITY AMB LT 12LPL	1	Mouser	78-VCNL4010-GS08	1	15551	2.40	2.40	GBP
7	Chip SMD Resistors	Panasonic	ERJ-6GEY0R00V	RES SMD 0 OHM JUMPER 1/8W 0805	3	Mouser	667-ERJ-6GEY0R00V	1	17000	0.08	0.24	GBP
8	Chip SMD Resistors	Panasonic	ERJ-6ENF1003V	RES SMD 100K OHM 1% 1/8W 0805	2	Mouser	667-ERJ-6ENF1003V	2	286752	0.08	0.15	GBP
9	Chip SMD Resistors	Panasonic	ERJ-6GEY0R00V	RES SMD 0 OHM JUMPER 1/8W 0805	1	Mouser	667-ERJ-6GEY0R00V	1	788480	0.08	0.08	GBP
10	Chip SMD Resistors	Panasonic	ERA-6AED102V	Res Thin Film 0805 1K Ohm 0.5% 1/8W ±25ppm/C Molded SMD SMD Punched Carrier T/R	2	Mouser	667-ERA-6AED102V	2	18196	0.18	0.36	GBP
11	Chip SMD Resistors	Panasonic	ERA-6AEB84R5V	RES SMD 84.5 OHM 0.1% 1/8W 0805	1	Mouser	667-ERA-6AEB84R5V	1	6045	0.28	0.28	GBP
12	Chip SMD Resistors	Panasonic	ERA-6AEB2741V	Res Thick Film 0805 16.9 Ohm 1% 1/4W 300ppm/C Molded SMD Punched Carrier T/R	1	Mouser	667-ERA-6AEB2741V	1	5043	0.28	0.28	GBP
13	Chip SMD Resistors	Panasonic	ERA-6AEB563V	RES SMD 56K OHM 0.1% 1/8W 0805	3	Mouser	667-ERA-6AEB563V	3	13309	0.28	0.84	GBP
14	Chip SMD Resistors	Panasonic	ERA6AEB5360V	RES SMD 536 OHM 0.1% 1/8W 0805	1	Mouser	667-ERA-6AEB5360V	1	8172	0.28	0.28	GBP
15	Chip SMD Resistors	Yageo	AT0805FRE0710KL	RES SMD 10K OHM 1% 1/8W 0805	7	Mouser	603-AT0805FRE0710KL	10	12701	0.25	2.49	GBP
16	Chip SMD Resistors	Panasonic	ERA6AEB2741V	Surface Mount Chip Resistor, Thin Film, AEC-Q200 ERA Series, 2.74 kohm, 125 mW, 0.1%, 100 V	2	Mouser	667-ERA-6AEB2741V	2	8588	0.28	0.56	GBP
17	Sensors	CUI Devices	CMC-4015-25L100	4.0 mm, Omnidirectional, Wire Leads, 3.0 Vdc, IP65 Rated, Electret Condenser Microphone	1	Mouser	490-CMC-4015-25L100	1	481	1.94	1.94	GBP
18	Inductors	TDK	KLZ2012MHR1R0HTD25	FIXED IND 1UH 800MA 130 MOHM SMD	1	Mouser	810-KLZ2012MHR1R0HTD	1	3633	0.24	0.24	GBP
19	Headers	Adafruit Industries	2222	GPIO FEMALE HEADER, RASPBERRY PI	1	Mouser	485-2222					
20	Inductors	TDK	MMZ2012Y152BT000	Ferrite Beads Multi-Layer 1.5KOhm 25% 100MHz 500mA 400mOhm DCR 0805	2	Mouser	810-MMZ2012Y152BT000	2	110	0.09	0.17	GBP
21	Zener Diodes	Vishay	BZT52B3V6-E3-08	Diode Zener Single 3.6V 2% 500mW 2-Pin SOD-123 T/R	1	Mouser	78-BZT52B3V6-E3-08	1	29413	0.25	0.25	GBP
22	Ceramic Capacitors	Kyocera AVX	08055A221F4T2A	T&R / COMMERCIAL CHIP	2	Mouser	581-08055A221F4T2A	2	6955	0.36	0.73	GBP
23	Ceramic Capacitors	Kyocera AVX	08053C224J4Z2A	Multilayer Ceramic Capacitors MLCC - SMD/SMT 25V 0.22uF X7R 0805 5% AEC-Q200	1	Mouser	581-08053C224J4Z2A	1	37020	0.15	0.15	GBP
24	Capacitors	Kyocera AVX	08055C105JAT2A	Multilayer Ceramic Capacitors MLCC - SMD/SMT 25V 1.0uF X7R 0805 5% AEC-Q200	2	Mouser	581-08055C105JAT2A	2	4264	0.39	0.77	GBP
25	Capacitors	Kyocera AVX	0805YC106MAT2A	Multilayer Ceramic Capacitors MLCC - SMD/SMT 25V 10uF X7R 0805 5% AEC-Q200	2	Mouser	581-0805YC106MAT2A	2	1716	0.45	0.90	GBP
26	Ceramic Capacitors	Kyocera AVX	08055C104JAT4A	CAP CER 0.1UF 50V X7R 0805	7	Mouser	581-08055C104JAT4A	10	69837	0.12	1.16	GBP
27	Ceramic Capacitors	TDK	C2012JB1A226M085AC	CAP CER 22UF 10V JB 0805	1	Mouser	810-C2012JB1A226M085AC	1	10381	0.53	0.53	GBP
					50				52	38,754		

REPLACED WITH EXISTING PART THROUGH THE ELECTRONICS STORE

Approved

A.C.

FINAL

Notes



1 pcs:

Total

38.754 GBP

Price for 1pcs

38.75 GBP

Revision Version: 1.0

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