Stückliste Bill of Materials

Bezeichnung / Name : Sensor Hub

Nummer	Bezeichnung	Wert	Gehäuse	Hersteller	Herstellerbezeichnung	Lieferant	Bestellnummer	Anzahl
Number	Description	Value	Case	Manufacturer	Manufacturer's designation	Distributor	Order number	Quantity
C3	Unpolarized capacitor	1uF	C_0805_2012Metric_Pad1.15x1.40mm_HandSolder	Kemet	C0805X105K3RAC3316	Mouser	80-C0805X105K3R3316	1
C2, C6, C7, C8	Unpolarized capacitor	100nF	C_0805_2012Metric_Pad1.15x1.40mm_HandSolder	Kemet	C0805C104K5RAC7411	Mouser	80-C0805C104K5RACLR	4
C4, C9	Unpolarized capacitor	10uF	C_0805_2012Metric_Pad1.15x1.40mm_HandSolder	TDK	C2012X7S1E106K125AE	Mouser	810-C2012X7S1E106125	2
C5	Polarized capacitor	100uF	CP_EIA-1608-08_AVX-J_Pad1.25x1.05mm_HandSolder	AVX	F980J107MMAAXE	Mouser	581-F980J107MMAAXE	1
D1, D2	Schottky diode	ZLLS500	D_SOT-23_ANK	Diodes Incorporated	ZLLS500TA	Mouser	522-ZLLS500TA	2
IC1	UVA sensor	VEML6070	OPLGA-6	Vishay Semiconductors	VEML6070	Mouser	78-VEML6070	1
IC2	Step-down battery charger	LT3652EMSE	MSOP-12-1EP_3x4mm_P0.65mm_EP1.65x2.85mm	Analog Devices	LT3652EMSE#PBF	Mouser	584-LT3652EMSE#PBF	1
IC3	4-in-1 sensor, gas, humidity,	BME680	Bosch_LGA-8_3x3mm_P0.8mm_ClockwisePinNumbering	Bosch Sensortec	BMP680	Mouser	262-BME680	1
	pressure, temperature							
IC4	Ambient light sensor	BH1726	WSON-8-1EP_2x2mm_P0.5mm_EP0.9x1.6mm	Rohm Semiconductor	BH1726NUC-E2	Mouser	755-BH1726NUC-E2	1
IC5	Temperature Sensor	MCP9808	MSOP-8_3x3mm_P0.65mm	Microchip	MCP9808T-E/MS	Mouser	579-MCP9808T-E/MS	1
L1	Inductor	68uH	L_2512_6332Metric_Pad1.52x3.35mm_HandSolder	Vishay / Dale	IDC2512ER680M	Mouser	70-IDC2512ER680M	1
M1		ParticleArgon	ParticleArgon	Particle	ARGNKIT	Mouser	465-ARGNKIT	1
R1, R2	Resistor	10k	R_0805_2012Metric_Pad1.15x1.40mm_HandSolder	TE Connectivity	CRGP0805F10K	Mouser	279-CRGP0805F10K	2
R3	Resistor	NTC	PinHeader_1x02_P2.54mm_Vertical	Murata Electronics	NXRT15XH103FA5B040	Mouser	81-NXRT15XH103FA5B040	1
R4, R6	Resistor	220k	R_0805_2012Metric_Pad1.15x1.40mm_HandSolder	TE Connectivity	CRGP0805F220K	Mouser	279-CRGP0805F220K	2
R5	Resistor	47k	R_0805_2012Metric_Pad1.15x1.40mm_HandSolder	TE Connectivity	CRGP0805F47K	Mouser	279-CRGP0805F47K	1
R7	Resistor	0R22	R_0805_2012Metric_Pad1.15x1.40mm_HandSolder	Panasonic	ERJ-U6QJR22V	Mouser	667-ERJ-U6QJR22V	1
R9	Resistor	22k	R_0805_2012Metric_Pad1.15x1.40mm_HandSolder	Vishay / Dale	TNPW080522K0BEEA	Mouser	71-TNPW080522K0BEEA	1
R9	Resistor	100k	R_0805_2012Metric_Pad1.15x1.40mm_HandSolder	Vishay / Draloric	TNPW0805100KBYEA	Mouser	71-TNPW0805100KBYEA	1
R10, R11, R12, R13, R	14, R15 Resistor	3k3	R_0805_2012Metric_Pad1.15x1.40mm_HandSolder	TE Connectivity	CRGP0805F3K3	Mouser	279-CRGP0805F3K3	6
R16	Resistor	270k	R_0805_2012Metric_Pad1.15x1.40mm_HandSolder	TE Connectivity	CRGP0805F270K	Mouser	279-CRGP0805F270K	1
RV1	Potentiometer	10k	Potentiometer_Vishay_TS53YJ_Vertical	Vishay	TS53YJ103MR10	Mouser	72-TS53YJ-10K	1
SW1	1x DIP Switch, Single Pole	ENABLE	SW_DIP_SPSTx01_Slide_Omron_A6S-	Omron	A6S-1104-PH	Mouser	653-A6S1104PH	1
31/1			110x W8.9mm P2.54mm					
X1		WIND	3-2172067-2	TE Connectivity	3-2172067-2	Mouser	571-3-2172067-2	1
X2		SOLAR	2-2172067-2	TE Connectivity	2-2172067-2	Mouser	571-2-2172067-2	1

Legende / Legend:

Nicht bestückt Not assembled

Durchsteckmontage Through-Hole technology

Mechanische Komponenten Mechanical Components

Bezeichnung / Name: Sensor Hub 13.07.2020

1.00 Bezeichnung Hersteller Herstellerbezeichnung Lieferant Bestellnummer Anzahl Description Manufacturer Manufacturer's designation Distributor Order number Quantity Gehäuse, Polycarbonat UL 94 V0, Bopla B 080805 PC-V0-G 7024 Bopla B 080805 PC-V0-G 7024 glasklarer Deckel Distanzhülse Harwin R30-6701494 Mouser 855-R30-6701494 Bopla DAE M6 7035 Bopla DAE M6 7035 Druckausgleichselemen Stecker, Female, 3-pol TE Connectivity T4010008031-000 TE T4010008031-000 Stecker, Female, 4-pol TE Connectivity T4010008041-000 TE T4010008041-000 Solarzelle Offgridtec 002960 Solar Autark 3-01-002960 Schraube M3x18 Würth SHR-ZYL-ISO14580-A2/70-TX10-M3X18 Mutter M6x0.75 TE Connectivity 1-1634816-0 RS 1-1634816-0

Legende / Legend:

Mechanische Komponenten Mechanical Components

Bezeichnung / Name: Sensor Hub 13.07.2020

1.00

Bezeichnung <i>Description</i>		 Lieferant <i>Distributor</i>	Bestellnummer Order number	Anzahl <i>Quantity</i>
Nicht hestückt	Not assembled			

Technische Spezifikationen **Technical** Specifications

Bezeichnung / Name: Sensor Hub 13.07.2020

	1.1
Bezeichnung	Spezifikation
Description	Specification
Description	opening and the second and the secon
Abmaße	72 x 50 mm
	72.830 (1)
Dimensions	
Standard	IPC-A-610 E Class 2 oder höher
Standard	IPC-A-610 E Class 2 or higher
Standard	IPC-A-610 E Class 2 of Higher
Basismaterial	1,5 mm FR4, 35 μmCu
Base material	-,- ······,
base material	
Stopplack	Beidseitig Grün
Soldermask	Both sides green
Bestückungsdruck	Keiner
Silkscreen	None
Oberfläche	Chemisch Nickel-Gold
Surface	Chemical nickel-gold
-	
Isolierlack	Nein
Insulation varnish	No No
Min. Bohrdurchmesser	0,2 mm
Min. drill-end diameter	
Min. Leiterbahnbreite	0,25 mm
	U,25 mm
Min track size	
Min. Leiterbahnabstand	0,2 mm
Min track distance	0,2 11111
Will track distance	
Kantenmetallisierung	Nein
Sideplating	No.
Sidepiding	
Freistellung Vias	Bohrlochdurchmesser + max. 0,15 mm gemäß ZVEI
Clearance vias	Drill hole + max. 0,15 mm regarding ZVEI
Kontur	Gefräst oder geritzt gemäß DIN ISO 2768 mittel
Contour	Milled or scored according DIN ISO 2768 medium

Bestückung Placement

Bezeichnung / Name: Sensor Hub 13.07.2020

	D 111 V	Destiles V	C. Y.	D. L.
Nummer	Position X	Position Y Position Y	Seite Side	Rotation
Number	Position X	Position 1	Side	Rotation
₹8	-51.054000	6.604000	0.000000	bottom
R9	-56.372000	6.604000	180.000000	bottom
22	21.844000	15.494000	270.000000	top
3	50.174400	18.021400	270.000000	top
24	60.096800	19.723200	0.000000	top
C5	59.928000	21.717000	0.000000	top
0.6	17.002000	20.853400	90.000000	top
7.7	16.124860	36.051480	270.000000	top
8	37.068000	18.288000	180.000000	top
29	54.991000	9.398000	180.000000	top
)1	43.037000	17.615000	0.000000	top
)2	51.038000	21.844000	270.000000	top
C2	53.463700	15.125800	90.000000	top
C3	37.068000	21.082000	90.000000	top
C4	20.200000	20.561400	0.00000	top
C5	13.117860	37.139380	90.000000	top
1	46.974000	19.980200	270.000000	top
R1	40.116000	29.426000	0.000000	top
12	31.997000	31.496000	0.00000	top
R4	56.948800	16.245000	270.000000	top
R5	59.064400	16.245000	90.000000	top
R6	61.121800	16.245000	270.000000	top
77	54.864000	20.828000	180.000000	top
R10	30.718000	24.130000	0.00000	top
R11	30.727000	19.558000	0.00000	top
112	40.903000	24.384000	180.000000	top
13	44.196000	29.438600	180.000000	top
114	22.098000	23.368000	0.000000	top
R15	25.527000	32.385000	270.000000	top
R16	27.178000	16.764000	0.000000	top
REF**	3.000000	18.000000	0.000000	top
REF**	70.000000	48.000000	0.00000	top