>=5
<5
=0

Stock component	Description	Component type	Package type	Package	Datasheet	
	TRANSISTORS					
	NPN General purpose SMD Imax=100mA, Vmax=45V	BCW71	SMD	SOT23	https://assets.nexperia.com/documents/data-sheet/BCW71_72.pdf	
	PNP General purpose SMD Imax=100mA, Vmax=45V	BCX71	SMD	SOT23	https://assets.nexperia.com/documents/data-sheet/BCX71.pdf	
	NPN General purpose Through hole Imax=100mA, Vmax=45V	BC547	TH	TO92	http://www.farnell.com/datasheets/59764.pdf	
	PNP General purpose Through hole Imax=100mA, Vmax=45V	BC557	TH	TO92	https://www.onsemi.com/pdf/datasheet/bc556b-d.pdf	
	NPN power transistor Imax=1,5A, Vmax=80V	BD139	TH	TO126	https://www.st.com/resource/en/datasheet/cd00001225.pdf	
	PNP power transistor Imax=1,5A, Vmax=80V	BD140	TH	TO126	https://www.st.com/resource/en/datasheet/cd00001225.pdf	
	DIODES					
	General purpose, Vmax=50V	1N4001	SMD + TH	DO-214AC or 400 mil axial	https://www.vishay.com/docs/88503/1n4001.pdf	
	General purpose, Vmax=1000V	1N4007	SMD + TH	DO-214AC or 400 mil axial	https://www.vishay.com/docs/88503/1n4001.pdf	
	Schottky, Vmax=40V, Imax=3A	SK34	SMD	DO-214AB	https://www.tme.eu/Document/18957d45ba28fcf199fc9ee0825a2384/sk32.pdf	
	Schottky, Vmax= 45V, Imax=5A	HTA5L45	SMD	DO-214AC	https://www.farnell.com/datasheets/2864105.pdf	
	MOSFETS					
	N type MOSFET, 3.3V logic level 100mA VDSmax=60V VGSmax=20V RDS=2Ohm	2N7002	SMD	SOT23	https://www.onsemi.com/pdf/datasheet/nds7002a-d.pdf	
	N type MOSFET, 3.3V logic level 6A VDSmax=20V VGSmax=12V RDS=0.020hm	IRLML6244	SMD	SOT23	https://www.farnell.com/datasheets/1749979.pdf	
	N type MOSFET, 3.3V logic level 90A VDSmax=60V VGSmax=20V RDS=0.005Ohm	IPD048N06L3	SMD	TO252 (DPAK)	https://www.farnell.com/datasheets/1932563.pdf	
	P type MOSFET 5A VDSmax=20V VGSmax=8V RDS=0.05Ohm	SI2323	SMD	SOT23	https://www.farnell.com/datasheets/2049166.pdf	
	P type MOSFET 60A VDSmax=30V VGSmax=20V RDS=0.004Ohm	SI7145	SMD	Powerpak SO8	https://www.vishay.com/docs/64814/si7145dp.pdf	
	P type MOSFET 160mA VDSmax=60V VGSmax=20V RDS=2Ohm	BSH201	SMD	SOT23	https://assets.nexperia.com/documents/data-sheet/BSH201.pdf	
	MOSFET drivers					
	High side MOSFET driver <150V, Iact=0,2mA	LTC7001	SMD	MSOP10	https://www.analog.com/media/en/technical-documentation/data-sheets/ltc7001.pdf	
	Power supply IC's					
	Regulator, fixed Vout=5V, Iq=8mA, Imax=1A, VinMax=35V	LM805	TH	TO220	https://www.ti.com/lit/ds/symlink/lm340.pdf	
	Regulator, fixed Vout=12V, Iq=8mA, Imax=1A, VinMax=35V	LM7812	TH	TO220	https://www.ti.com/lit/ds/symlink/lm340.pdf	
	Series regulator, variable,Imin=3mA, Imax=1.5A	LM317	TH	TO220	https://www.ti.com/lit/ds/symlink/lm317.pdf	
	Low dropout regulator, fixed Vout=3.3V, Iq=0.5µA, VinMax=6V, Imax=100mA	TPS78233	SMD	SOT23-6	https://www.ti.com/lit/ds/symlink/tps782.pdf	
	Low dropout regulator, fixed Vout=3.3V, Iq=2µA, VinMax=12V, Imax=200mA	MCP1702-33	TH	TO92	https://www.microchip.com/en-us/product/MCP1702	
	Low dropout regulator, fixed Vout=3.3V, Iq=2µA, VinMax=12V, Imax=200mA	MCP1702-33	SMD	SOT89	https://www.microchip.com/en-us/product/MCP1702	
	Low dropout regulator, fixed Vout=3.3V, Iq=250µA, VinMax=18V, Imax=1200mA	LDL1117S33R	SMD	SOT223-3	https://www.farnell.com/datasheets/2259188.pdf	
	Buck converter, variable, Iq=5mA, Vmax=45V, Imax=3A, Vin=4,5V <-> 40V	LM2596	SMD	TSSB	https://www.ti.com/lit/ds/symlink/lm2596.pdf	
	Buck converter, variable, Iq=3mA, Vmax=36V, Imax=5A	TPS5450	SMD	SO8 powerpad	https://www.ti.com/lit/ds/symlink/tps5450.pdf	
	Buck converter, variable, Iq=15µA, Vinmin=4,5V Vinmax=24V, Imax=0,6A	MAX1776	SMD		https://datasheets.maximintegrated.com/en/ds/MAX1776.pdf	
	Buck converter, variable, Iq=25µA, Vinmax=5V, Imax=1A or 2A, no dropout	TPS62A0X	SMD	SOT563	https://www.ti.com/lit/ds/symlink/tps62a01.pdf	Getest, Eff>90%
	Boost converter, variable, Iq=150µA, Vmin=3V, Imax=1A	MT3608	SMD	SOT23-6	https://www.olimex.com/Products/Breadboarding/BB-PWR-3608/resources/MT3608.pdf	
	Boost converter, variable, Iq=20mA, Vmin=4V, Vmax=40V, Imax=4A	LM2587-ADJ	TH	TO220-5	https://www.ti.com/lit/ds/symlink/lm2587.pdf	
	Buck-Boost converter, variable, Iq=15µA, Vmin=1,6V, Vmax=5,5V, Imax=1,5A	TPS631000	SMD	SOT5X3	https://www.ti.com/product/TPS631000	
	Logic gates					In labo: UC2577 variant is aanwezig
	NAND gate, single, 2.5V <->5,5V	74AHC1G00	SMD	SOT23-5	https://www.ti.com/lit/ds/scls313o/scls313o.pdf	
	Battery,power management IC's					
	Single cell LiPo BMS	DW01A	SMD	SOT23-6	http://hmsemi.com/downfile/DW01A.PDF	
	Single cell LiPo charger	MCP73833	SMD	MSOP10	https://www.microchip.com/en-us/product/MCP73833	
	High/low side I²C current monitor , Vmax=26V	INA220	SMD	VSSOP10	https://www.ti.com/lit/ds/symlink/ina220.pdf	
	Analog hall effect current monitor (Imax=200A)	ACS758	TH		https://www.allegromicro.com/~/media/files/datasheets/acs758-datasheet.ashx	
	Battery SoC meter (coulomb counter)	LTC2941	SMD	MSOP8	https://www.analog.com/media/en/technical-documentation/data-sheets/ltc2941.pdf	
	Communications					
	RS485 transceiver 40Mbps half duplex	ISL3179	SMD	SO8	https://www.renesas.com/us/en/document/dst/isl3179e-isl3180e-datasheet	
	USB <-> UART bridge	FT-232	SMD	SSOP28	https://www.farnell.com/datasheets/2007793.pdf	
	CAN bus controller	MCP2515	SMD		https://ww1.microchip.com/downloads/en/DeviceDoc/MCP2515-Stand-Alone-CAN-Controller-with-SPI-20001801J.pdf	
	I²C					
	I²C level translator	PCA9517	SMD	SO8	https://www.nxp.com/docs/en/data-sheet/PCA9517.pdf	
	I²C IO expander	PCF8574	SMD + TH	SO16 or DIP16	http://www.farnell.com/datasheets/1716973.pdf	
	I²C ADC 16bit 4 single ended input / 2 diff input 860 sps	ADS1115	SMD	VSOP10	https://www.ti.com/lit/ds/symlink/ads1115.pdf	
	I²C DAC 12bit 4 single ended output	DAC7574	SMD	MSOP10	https://www.ti.com/lit/ds/symlink/dac7574.pdf	
	Motor drivers					
	H-bridge Vmax=50V, Imax=5A	L6203	TH	Multiwatt 11	http://www.farnell.com/datasheets/1696819.pdf	
	H-bridge Vmax=50V, Imax=1,5A	A4973	SMD	SOIC 16	http://www.farnell.com/datasheets/1909783.pdf	
	H-bridge Vmax=10V, Imax=1,5A	DRV8833	SMD	HTSSOP 16	https://www.ti.com/lit/ds/symlink/drv8833.pdf	
	Stepper motor driver Vmax=30V, Imax=0,75A	A3967	SMD	SOIC 24	https://www.allegromicro.com/~/media/files/datasheets/a3967-datasheet.pdf	
	Opamps, comparators					
	Comparator, Iq=700nA, Vmax=11V, internal reference	LTC1540	SMD		http://www.farnell.com/datasheets/1575751.pdf	
	Comparator, Iq=0,8µA, Vmax=36V, open collector output	LM393	SMD + TH	SO8, DIP8	https://www.farnell.com/datasheets/2572058.pdf	
	Opamp, quad, V=2,5V - 5,5V rail to rail Voffset=350µV, Isupply=4mA Vnoise=17nV/sqrHz	TLV2775	SMD	SO16	https://www.ti.com/lit/ds/symlink/tlv2775.pdf	
	Opamp, quad Vmax=30V Voffset=2mV, Isupply=1,5 mA, Vnoise=40mV/sqrHz	LM324	SMD + TH	SO14, DIP14	http://www.farnell.com/datasheets/1834360.pdf	
	Opamp, single Vmax=36V Voffset=10mV, Isupply=2,5mA Vnoise=15mV/sqrHz	TL081	TH	DIP8	https://www.farnell.com/datasheets/127138.pdf	
	Opamp, quad Vmax=36V Voffset=10mV, Isupply=2,5mA Vnoise=15mV/sqrHz	TL084	TH	DIP14	https://www.farnell.com/datasheets/1700004.pdf	
	Sensors					
	Latching (bipolar) Hall effect sensor (Vcc=3.3V - 24V)	A3290	SMD + TH	SOT23 or SIP3	http://www.farnell.com/datasheets/2353982.pdf	
	Non-latching (unipolar) Hall effect sensor (Vcc=5V - 24V)	A1104	TH	SIP3	http://www.farnell.com/datasheets/2801395.pdf	
	1 bar differential pressure sensor	MPX5100DP	TH		https://www.farnell.com/datasheets/2291567.pdf	
	LEDs					
	RGB LED, serial protocol	PL9823	TH	5mm LED	https://cdn.instructables.com/ORIG/FW0/YN1X/IHDUL683/FW0YN1XIHDUL683.pdf	
	Red LED		SMD	PLCC-2	https://www.farnell.com/datasheets/2343258.pdf	
	Green LED		SMD	PLCC-2	https://www.farnell.com/datasheets/2343258.pdf	
	Blue LED		SMD	PLCC-2	https://www.farnell.com/datasheets/2343258.pdf	
	Yellow LED		SMD	PLCC-2	https://www.farnell.com/datasheets/2343258.pdf	
	White LED		SMD	PLCC-2	https://www.farnell.com/datasheets/2343258.pdf	
	Phototransistors					
	Visible light phototransistor	SFH309	TH	3mm LED	https://www.farnell.com/datasheets/2711611.pdf	
	Optocouplers					
	Transistor based optocoupler	4N27	TH	DIP6	https://www.farnell.com/datasheets/2047056.pdf	
	Optical switch					
	Optical switch / photo interrupter	GP1S094HCZ0F	TH		https://www.farnell.com/datasheets/1671194.pdf	
	Microcontrollers					
	8-bit XMEGA series microcontroller	ATXMEGA32A4	SMD	TQFP44		
	8-bit AVR microcontroller (arduino)	ATMEGA328	SMD + TH	TQFP32, DIP28		

Stock	Description
	Displays
	0,96" monochrome OLED
	1,3" color TFT display, Idisplay=5mA, Ibacklight=22mA
	Battery,power management IC's
	Single cell LiPo BMS
	1A single cell battery charger
	Single to positive/negative boost converter (DD1718PA) (12V version)
	Boost converter, variable, Iq=150µA, Vmin=3V, Imax=1A
	Boost / buck converter, Vin=2,5V - 15V Vout= 3,3V
	3A 40V CC/CV buck converter module
	3A 40V buck converter module
	35V 5A boost converter module
	120V --> 12V, 3A stepdown module
	120V --> 5V, 5A stepdown module
	Energy harvester (Vin=2,7V - 20V) Iq=1µA
	Buck converter, variable, Iq=25µA, Vinmax=5V, Imax=1A no dropout
	Buck-Boost converter, variable, Iq=15µA, Vmin=1,6V, Vmax=5,5V, Imax=1,5A
	Boost converter, Vin:[2,7V,12V] Iq=150µQ, Imax=3A
	Wired communications
	CAN bus controller
	USB <-> UART bridge
	Wireless communications
	433 MHz OOK transmitter (smallest module in compartment)
	433 MHz OOK receiver (larger module in compartment)
	I²C
	I²C IO expander

Component type	Locatie	Datasheet
SSD1306	DIV2 / A2	https://www.aliexpress.com/item/32957309383.html https://www.digikey.com/htmldatasheets/productio
ST7789	DIV2 / A2	https://www.aliexpress.com/item/32977104490.html https://www.makerfabs.com/desfile/files/ST7789-Da
DW01	DIV2 / E1	http://hmsemi.com/downfile/DW01A.PDF
TP4056	DIV2 / F3	https://www.aliexpress.com/item/32670803042.html
XL6007	DIV2 / F8	https://www.aliexpress.com/item/32824676563.html http://www.ksmcu.com/pdf/XL6007%20datasheet.p
MT3608	DIV2 / D3	https://www.aliexpress.com/item/1005002748211742 https://www.olimex.com/Products/Breadboarding/E
MT3608	DIV2 / D3	https://nl.aliexpress.com/item/1005002849970161.ht https://www.olimex.com/Products/Breadboarding/E
LM2596	DIV2 / D6	https://www.ti.com/lit/ds/symlink/lm2596.pdf https://www.aliexpress.com/item/32817719968.html
LM2596	DIV2 / D4	https://www.ti.com/lit/ds/symlink/lm2596.pdf https://www.aliexpress.com/item/32845321243.html
LM2587	DIV2 / D5	https://www.ti.com/lit/ds/symlink/lm2587.pdf https://www.aliexpress.com/item/32663310105.html
?	DIV2 / C2	https://www.aliexpress.com/item/1005001723001382
?	DIV2 / C2	https://www.aliexpress.com/item/1005001723001382
LTC3588	DIV2 / B4	https://www.analog.com/media/en/technical-docum
TPS62A0X	DIV2/ A4	https://www.ti.com/lit/ds/symlink/tps62a01.pdf
TPS631000	SMD CHIPS 1	https://www.ti.com/product/TPS631000
TPS61088	DIV2 / A6	https://nl.aliexpress.com/item/1005006072690195.ht https://www.ti.com/lit/ds/symlink/tps61088.pdf
MCP2515	DIV2 / D8	https://www.aliexpress.com/item/32858168978.html https://www.aliexpress.com/item/32293255160.html https://ww1.microchip.com/downloads/en/DeviceD
FT232RL	DIV2 / D7	https://www.aliexpress.com/item/32645814447.html https://www.farnell.com/datasheets/2007793.pdf
SYN115	DIV2 / E5	https://nl.aliexpress.com/item/32849777832.html https://www.rhydolabz.com/documents/33/SYN113
SYN480R	DIV2 / E5	https://nl.aliexpress.com/item/32849777832.html https://datasheet.lcsc.com/lcsc/2202221830_Synoxo
PCF8574	DIV2 /E3	https://www.aliexpress.com/item/32224660654.html

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-SYN115-datasheet-version-1-1-.0.pdf

-SYN480R_C15561.pdf

I²C ADC 16bit 4 single ended input / 2 diff input 860 sps

I²C pressure, temperature, humidity sensor (GY-BMEP)

I²C pressure, temperature, humidity sensor

3 axis gyroscope module (GY-50)

3 axis gyroscope, accelerometer module (GY-521)

3 axis magnetormeter (GY-273)

2m laser rangefinder

I²C servo / power LED controller

I²C current sensor

Motor drivers

H-bridge Vmax=10V, Imax=1,5A

Stepper motor driver Vmax=30V, Imax=0,75A

Stepper motor driver Vmax=45V, Imax=2,5A

Audio

Bluetooth audio interface

50W Class D audio amplifier

I2S Microphone + amplifier

3W audio amplifier + I2S DAC

8002B audio amplifier + speaker

Sensors

PIR sensor module 3,3V <->24V

Others

Single relay module (digital input)

		http://www.farnell.com/datasheets/1716973.pdf
ADS1115	DIV2 / A1	https://www.aliexpress.com/item/4000160285273.ht
		https://www.ti.com/lit/ds/symlink/ads1115.pdf
BMP280	DIV2 / B1	https://www.aliexpress.com/item/4000090163194.ht
		https://cdn-shop.adafruit.com/datasheets/BST-BMP
BME680	DIV2 / C3	https://nl.aliexpress.com/item/4001113450307.html?
		https://cdn-shop.adafruit.com/product-files/3660/BI
L3G4200D	DIV2 / B3	https://www.aliexpress.com/item/2023848345.html
		https://www.elecrow.com/download/L3G4200_AN33
MPU-6050	DIV2 / D2	https://www.aliexpress.com/item/100500162187747
		https://invensense.tdk.com/wp-content/uploads/20
HMC5883L	DIV2 / B3	https://cdn-shop.adafruit.com/datasheets/HMC588
		https://www.aliexpress.com/item/32504223001.html
VL53L30X	DIV2 / C7	https://www.aliexpress.com/item/32800786275.html
		https://www.st.com/resource/en/datasheet/vl53l0x.
PCA9685	DIV2 / E2	https://www.aliexpress.com/item/4000468996665.ht
		https://www.farnell.com/datasheets/1919279.pdf
INA219	DIV2 / F1	https://nl.aliexpress.com/item/33047166203.html
		https://www.ti.com/lit/ds/symlink/ina219.pdf
DRV8833	DIV2 / E4	https://www.aliexpress.com/item/100500620519075
		https://www.ti.com/lit/ds/symlink/drv8833.pdf
A3967	DIV2 / C4	https://www.aliexpress.com/item/32652039984.html
		https://www.allegromicro.com/-/media/files/datash
DRV8825	DIV2 / C4	https://nl.aliexpress.com/item/1005003417425013.ht
		https://www.ti.com/lit/ds/symlink/drv8825.pdf
JDY-62	DIV2 / B5	https://www.aliexpress.com/item/33012721487.html
TPA3118	DIV2 / E7	https://www.aliexpress.com/item/32810352446.html
		https://www.ti.com/lit/ds/symlink/tpa3118d2.pdf
INMP441	DIV2 / E8	https://nl.aliexpress.com/item/1005003340565935.ht
		https://invensense.tdk.com/wp-content/uploads/20
MAX98357	DIV2 / E7	https://nl.aliexpress.com/item/1005004280540810.ht
		https://www.analog.com/media/en/technical-docum
8002B	DIV2 / B9	https://nl.aliexpress.com/item/1005004312864454.ht
	DIV2 / C5	https://www.aliexpress.com/item/100500413873563
	DIV2 / C1	https://nl.aliexpress.com/item/32904811782.html?

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Description

Switches
SMD push button (6 mm x 6 mm)
TH push button (6 mm x 6 mm)

Connectors
2.5mm DC power connector (PCB mount)

Resistors SMD 0805 footprint
0 Ω
0.47 Ω
1 Ω
4.7 Ω

10 Ω
22 Ω
33 Ω
39 Ω
47 Ω
68 Ω
75 Ω

100 Ω
120 Ω
150 Ω
220 Ω
330 Ω
470 Ω
680 Ω

Component type	Package type	Package
B3FS	SMD	
	TH	
FC681465	TH	

Resistors TH, 400 mil terminal spacing

1 Ω
1.2 Ω
1.5 Ω
1.8 Ω
2.2 Ω
2.4 Ω
3.3 Ω
3.9 Ω
4.7 Ω
5.6 Ω
6.8 Ω
8.2 Ω

10 Ω
12 Ω
15 Ω
18 Ω
22 Ω
27 Ω
33Ω
36 Ω
39 Ω
47 Ω
56 Ω
68 Ω
75 Ω
82 Ω

100 Ω
120 Ω
130 Ω
150 Ω
180 Ω
200 Ω
220 Ω
270 Ω
330 Ω

Datasheet

http://www.farnell.com/datasheets/2340395.pdf
http://www.farnell.com/datasheets/1804042.pdf

https://www.farnell.com/datasheets/816904.pdf

1 kΩ
1,1 kΩ
1.5 kΩ
1.8 kΩ
2 kΩ
2.2 kΩ
3.3 kΩ
3.9 kΩ
4.7 kΩ
5.6 kΩ
6.8 kΩ
8.2 kΩ

10 kΩ
12 kΩ
15 kΩ
20 kΩ
21 kΩ
22 kΩ
33 kΩ
39 kΩ
47 kΩ
56 kΩ
68 kΩ

100 kΩ
110 kΩ
120 kΩ
150 kΩ
180 kΩ
220 kΩ
270 kΩ
330 kΩ
390 kΩ
470 kΩ
560 kΩ
680 kΩ

360 Ω
390 Ω
470 Ω
560 Ω
620 Ω
680 Ω
820 Ω

1 kΩ
1.2 kΩ
1.5 kΩ
1.6 kΩ
1.8 kΩ
2.2 kΩ
2.7 kΩ
3.3 kΩ
3.6 kΩ
3.9 kΩ
4.7 kΩ
5.6 kΩ
6.8 kΩ
7.5 kΩ
8.2 kΩ

10 kΩ
12 kΩ
15 kΩ
18 kΩ
22 kΩ
27 kΩ
33 kΩ
36 kΩ
39 kΩ
43 kΩ
56 kΩ
68 kΩ
82 kΩ

100 kΩ
120 kΩ
150 kΩ
180 kΩ
200 kΩ
220 kΩ
270 kΩ
330 kΩ
360 kΩ
390 kΩ
470 kΩ
560 kΩ
680 kΩ

1 MΩ
2MΩ
2.2 MΩ
3.3 MΩ
4.7 MΩ
10 MΩ

Capacitors SMD 0805 footprint
2.2 pF
3.3 pF
4.7 pF
6.8 pF
8 pF

10 pF
12 pF
15 pF
22 pF
33 pF
47 pF
68 pF

100 pF
150 pF
200 pF
220 pF
270 pF
330 pF
470 pF
680 pF

1 nF
2.2 nF
3.3 nF
4.7 nF
6.8 nF

820 kΩ

10 MΩ

Capacitor TH, unspecified footprint

1 pF
1.2 pF
1.5 pF
1.8 pF
3.9 pF
4.7 pF
5.6 pF
6.8 pF
8.2pF

10 pF
12 pF
15 pF
27 pF
33 pF
39 pF
47 pF
68 pF
82 pF

100 pF
120 pF
150 pF
180 pF
220 pF
270 pF
330 pF
390 pF
470 pF
560 pF
680 pF
820 pF

1 nF
1.2 nF
1.5 nF
1.8 nF
2.2 nF
2.7 nF

10 nF
15 nF
22 nF
33 nF
47 nF
68 nF

100 nf

1 µF
2.2 µF
4.7µF

10 µF
22µF
47µF

3.3 nF
3.9 nF
4.7 nF
5.6 nF
6.8 nF
8.2nF

10 nF
12 nF
15 nF
22 nF
27 nF
33 nF
39 nF

100 nF
150 nF
220 nF
270 nF
330 nF
470 nF
560 nF
680 nF
820 nF

1 µF
3.3 µF
4.7 µF
6.8 µF
8.2 µF

10 µF
22 µF
33 µF
47 µF
68 µF
82 µF

100 µF
150 µF
220 µF
330 µF
470 µF
820 µF