

Comment	Description	Designator	Footprint	Datasheet	Manufacturer	Manufacturer P/N	Supplier Web Page
47uF	47 µF ±20% 10V Ceramic Capacitor X5R 0805 (2012 Metric)	C1, C2	C0805	https://search.murata.co.jp/Ceramy/image/img/A01X/G101/ENG/GRM21BR61A476ME15-01.pdf	Murata Electronics	GRM21BR61A476ME15L	https://www.digikey.com/en/products/detail/murata-electronics/GRM21BR61A476ME15L/4905529?s=N4lgTCBcDalOICUCyYCMaHBA2VBALAOxZIClqArADlgC6AvkA
4.7uF	4.7 µF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	C3, C5	C0805	https://product.tdk.com/system/files/dam/doc/product/capacitor/ceramic/mlcc/catalog/mlcc_commercial_general_en.pdf	TDK Corporation	C2012X7R1H475K125AC	https://www.digikey.com/en/products/detail/tdk-corporation/C2012X7R1H475K125AC/10413507?s=N4lgTCBcDalMlgAwEYwA0DSaIzAJALBgKwDSqRAgnCAlCo%2BQA
0.1uF	0.1 µF ±10% 100V Ceramic Capacitor X7R 0805 (2012 Metric)	C4, C6	C0805	https://search.murata.co.jp/Ceramy/image/img/A01X/G101/ENG/GCM033R71A103KA03-01A.pdf	Murata Electronics	GCM21BR72A104KA37L	https://www.digikey.com/en/products/detail/murata-electronics/GCM21BR72A104KA37L/1641663?s=N4lgTCBcDalCwE4AMBaOB2AHAlA2FAcgClgC6AvkA
1uF	1 µF ±5% 16V Ceramic Capacitor X7R 0805 (2012 Metric)	C7	C0805	https://connect.kemet.com:7667/gateway/IntelliData-ComponentDocumentation/1.0/download/datasheet/C0805C105J4RACU	KEMET	C0805C105J4RAC7800	https://www.digikey.com/en/products/detail/kemet/C0805C105J4RAC7800/2211759?s=N4lgTCBcDalMIAYAcCCscCMaBSAWASgUwDsKCIaUgl5A
2.2uF	2.2 µF ±5% 16V Ceramic Capacitor X7R 0805 (2012 Metric)	C8	C0805	https://content.kemet.com/datasheets/KEM_C1090_X7R_ESD.pdf	KEMET	C0805C225J4REC7800	https://www.digikey.com/en/products/detail/kemet/C0805C225J4REC7800/8643702?s=N4lgTCBcDalMIAYAcCCscxIQKQCwCUBROadhQRAF0BfIA
Blue Led 0805	Blue 470nm LED Indication - Discrete 3.2V 0805 (2012 Metric)	D1	LED 0805	https://www.we-online.com/components/products/datasheet/150080BS75000.pdf	Würth Elektronik	150080BS75000	https://www.digikey.com/en/products/detail/w%C3%BCrth-elektronik/150080BS75000/4489912
12401598E4#2A	USB-C (USB TYPE-C) USB 3.2 Gen 2 (USB 3.1 Gen 2, Superspeed + (USB 3.1)) Receptacle Connector 24 Position Surface Mount, Right Angle: Through Hole	J1	AMPHENOL_12401598E4#2A	https://www.amphenol-cs.com/media/wysiwyg/files/drawing/12401598xx2a.pdf	Amphenol ICC	12401598E4#2A	https://www.digikey.com/en/products/detail/amphenol-icc-commercial-products/12401598e4-2a/6051823
MPT 0.5/ 6-2,54	6 Position Wire to Board Terminal Block Horizontal with Board 0.100" (2.54mm) Through Hole	J2	1725698	https://www.phoenixcontact.com/en-us/products/printed-circuit-board-terminal-mpt-05-6-254-1725698?type=pdf	Phoenix Contact	1725698	https://www.digikey.com/en/products/detail/phoenix-contact/1725698/267466
Jumper 0.1" 1x2 Black	2 (1 x 2) Position Shunt Connector Open Top, Grip 0.100" (2.54mm) Gold	JS1, JS2, JS3	BERG-M-2V	https://s3.amazonaws.com/catalogspreads-pdf/PAGE128-129%20.100%20JUMPER.pdf	Sullins Connector Solutions	NPC02SXON-RC	https://www.digikey.com/en/products/detail/sullins-connector-solutions/NPC02SXON-RC/2618266
BSS64LT1G	Bipolar (BJT) Transistor NPN 80 V 100 mA 60MHz 225 mW Surface Mount SOT-23-3 (TO-236)	Q1, Q2	SOT-23	https://www.onsemi.com/pdf/datasheet/bss64lt1-d.pdf	onsemi	BSS64LT1G	https://www.digikey.com/en/products/detail/onsemi/BSS64LT1G/1476267?s=N4lgTCBcDalEIGUEDYAsAZAKgRgOlGf0BfIA
180R	180 Ohms ±1% 0.25W, 1/4W Chip Resistor 0805 (2012 Metric) Anti-Sulfur Thin Film	R1	R0805	https://www.seielect.com/catalog/sei-mcp.pdf	Stackpole Electronics Inc	RNCP0805FTD180R	https://www.digikey.com/en/products/detail/stackpole-electronics-inc/RNCP0805FTD180R/2240212
21K	21 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thick Film	R2	R0805	https://www.yageo.com/upload/media/product/products/datasheet/rchip/PYu-RC_Group_51_RoHS_L_12.pdf	YAGEO	RC0805FR-0721KL	https://www.digikey.com/en/products/detail/yageo/RC0805FR-0721KL/727728
1K07	1.07 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	R3	R0805	https://www.vishay.com/docs/20035/drcw3.pdf	Vishay Dale	CRCW08051K07FKEA	https://www.digikey.com/en/products/detail/vishay-dale/CRCW08051K07FKEA/1175640
48K7	48.7 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thick Film	R4	R0805	https://www.yageo.com/upload/media/product/products/datasheet/rchip/PYu-RC_Group_51_RoHS_L_12.pdf	YAGEO	RC0805FR-0748K7L	https://www.digikey.com/en/products/detail/yageo/RC0805FR-0748K7L/727981
5K1	5.1 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thick Film	R5, R6	R0805	https://www.yageo.com/upload/media/product/products/datasheet/rchip/PYu-RC_Group_51_RoHS_L_12.pdf	YAGEO	RC0805FR-075K1L	https://www.digikey.com/en/products/detail/yageo/RC0805FR-075K1L/727988
10K	10 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	R7, R10	R0805	https://www.seielect.com/catalog/sei-rmcf_rmpc.pdf	Stackpole Electronics Inc	RMCF0805FT10K0	https://www.digikey.com/en/products/detail/stackpole-electronics-inc/RMCF0805FT10K0/1760676
CMC 370MA 2LN 900HM SMD AEC-Q200	2 Line Common Mode Choke Surface Mount 90 Ohms @ 100 MHz 370mA DCR 300mOhm	T1	744232090	https://www.we-online.com/components/products/datasheet/744232090.pdf	Würth Elektronik	744232090	https://www.digikey.com/en/products/detail/w%C3%BCrth-elektronik/744232090/1638873?s=N4lgTCBcDalOwGfwfCMAWAbATmZ5AcgClgC6AvkA
USB ESD protection	Clamp Ipp Tvs Diode Surface Mount SOT-143	U1	SOT143-4	https://www.diodes.com/assets/Datasheets/DR1R5V0U2SR.pdf	Diodes Incorporated	DR1R5V0U2SR-7	https://www.digikey.com/en/products/detail/diodes-incorporated/DR1R5V0U2SR-7/4402528
CP2102N-A02-GQFN28R	USB Bridge, USB to UART USB 2.0 UART Interface 28-QFN (5x5)	U2	QFN50P500X500X80_H5-29N CP2102N	https://www.silabs.com/documents/public/datasheets/cp2102n-datasheet.pdf	Silicon Labs	CP2102N-A02-GQFN28R	https://www.digikey.com/en/products/detail/silicon-labs/CP2102N-A02-GQFN28R/9863480
3.3V 600mA PMIC	Linear Voltage Regulator IC Positive Fixed 1 Output 600mA TSOT-23-5	U3	SOT94P280X100-5N	https://www.richtek.com/assets/product_file/RT9080/DS9080-05.pdf	Richtek USA Inc.	RT9080-33GJ5	https://www.digikey.com/en/products/detail/richtek-usa-inc/RT9080-33GJ5/6161634?s=N4lgTCBcDalEoBUcAGAHcgtAZmwcOckBWEAXQF8g