

ID	Reference	Footprint	Qty	Value	Manufacturer	Datasheet
1	C1,C2	C_0805	2	12pF	Walsin Technology Corporation	http://www.passivecomponent.com/indexsea/ASC_General_Purpose.pdf
2	C3,C4,C7,C10,C12,C13	C_0805	16	100nF	Walsin Technology Corporation	http://www.passivecomponent.com/indexsea/ASC_General_Purpose.pdf
3	C5,C6,C17	C_0805	3	2.2uF	Samsung Electro-Mechanics Company, Limited	http://www.samsungsem.com/global/support/product-search/mlcc/_icsFiles/afieldfile/2018/07/24/CL21B225KPFNNNE.pdf
4	C8,C9,C11,C19,C21	C_0805	5	1uF	Yageo Corporation	http://www.yageo.com/documents/recent/UPY-GPHC_Y5V_6.3V-to-50V_8.pdf
5A	C27	C_1206	1	47nF	Kemet Electronics Corporation	https://content.kemet.com/datasheets/KEM_C1091_C0G_ESD.pdf
5B	C27	C_0805	1	47nF	Kemet Electronics Corporation	https://content.kemet.com/datasheets/KEM_C1091_C0G_ESD.pdf
6	R1,R7,R10	R_0805	3	10K	Stackpole Electronics Incorporated	https://www.seielect.com/Catalog/SEI-RMCF_RMCP.pdf
7	R38	R_0805	1	100K	Yageo Corporation	http://www.yageo.com/documents/recent/Pyu-RC0805_51_RoHS_L_v5.pdf
8	R2,R3,R15,R32	R_0805	4	150	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC0805_51_RoHS_L_v5.pdf
9	R4	R_0805	1	390K	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC0805_51_RoHS_L_v5.pdf
10	R5,R6	R_0805	2	3.9K	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC0805_51_RoHS_L_v5.pdf
11	R8	R_0805	1	1.5K	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC0805_51_RoHS_L_v5.pdf
12	R9,R11	R_0805	2	22	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC0805_51_RoHS_L_v5.pdf
13	R12	R_0805	1	12K	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC0805_51_RoHS_L_v5.pdf
14	R13	R_0805	1	22K	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC0805_51_RoHS_L_v5.pdf
15	R14	R_0805	1	100	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC0805_51_RoHS_L_v5.pdf
16	R31	R_0805	1	1K	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC0805_51_RoHS_L_v5.pdf
17	R33,R34	R_0805	2	2.4K	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC0805_51_RoHS_L_v5.pdf
18	R35,R36,R39	R_0805	3	510	Yageo Corporation	http://www.yageo.com/documents/recent/PYu-RC_Group_51_RoHS_L_10.pdf
19	F1	R_0805	1	PTC	Bourns, Incorporated	https://www.bourns.com/docs/Product-Datasheets/mfpsmf.pdf
20	D2,D3,D4,D7	D_SOD-123	4	D_Schottky	Diodes Incorporated	https://www.diodes.com/assets/Datasheets/ds30308.pdf
21	D1	LED_0805	1	YELLOW	Dialight PLC	http://www.dialightsignalsandcomponents.com/Assets/Brochures_And_Catalogs/Indication/CBI_SMD_new/Dialight_CBI
22	D5	LED_0805	1	RED	Dialight PLC	http://www.dialightsignalsandcomponents.com/Assets/Brochures_And_Catalogs/Indication/CBI_SMD_new/Dialight_CBI
23A	D6	LED_0805	1	GREEN	Dialight PLC	http://www.dialightsignalsandcomponents.com/Assets/Brochures_And_Catalogs/Indication/CBI_SMD_new/Dialight_CBI
23B	D6	LED_0805	1	BLUE	Dialight PLC	http://www.dialightsignalsandcomponents.com/Assets/Brochures_And_Catalogs/Indication/CBI_SMD_new/Dialight_CBI
24	D8	LED_0805	1	WHITE	Bivar, Incorporated	https://www.bivar.com/portals/0/products/SM0805UWC.pdf
25	Q1	SOT-23	1	MOSFET	Diodes, Incorporated	https://www.diodes.com/assets/Datasheets/DMG2302UK.pdf
26	U1	LQFP-64_10x10mm_F	1	STM32F405RGTx	STMicroelectronics N.V.	https://www.st.com/resource/en/datasheet/stm32f405og.pdf
27	U2	SOT-23	1	LN6206P33M	Shanghai Nanlin Electronics	http://www.natlinear.com/uploadfiles/2014/LN/LN6206_E.pdf
28	U3	DFN-8-1EP_2x3mm_F	1	ATECC608A	Microchip Technology Incorporated	https://ww1.microchip.com/downloads/en/DeviceDoc/40001977A.pdf
29	U4	DFN-8-1EP_2x3mm_F	1	ATAES132A	Microchip Technology Incorporated	https://ww1.microchip.com/downloads/en/DeviceDoc/ATAES132A-Data-Sheet-40002023A.pdf
30	U5	ChipLED-6_2x2mm	1	LTR303ALS	Lite-On Technology Corporation	https://optoelectronics.liteon.com/upload/download/DS86-2013-0004/LTR-303ALS-01_DS_V1.pdf
31	U6	LGA-12_2x2mm_P0	1	BMA280	Bosch Sensortec GmbH	https://ae-bst.resource.bosch.com/media/_tech/media/datasheets/BST-BMA280-DS000.pdf
32A	Y1	CSMD-4pin_5.0x3.2m	1	ABM3BCrystal	Abracon, LLC	https://abracon.com/Resonators/abm3b.pdf
32B	Y1	CSMD-4pin_5.0x3.2m	1	ABM3BCrystal	Abracon, LLC	https://abracon.com/Resonators/abm3b.pdf
33	SW1,SW2	SW_SPST_PTS645	2	SW_SPST	C&K Components, Incorporated	https://www.ckswitches.com/media/1471/pts645.pdf
34	SW3	SW_SPST_Detect	1	SW_SPST	Panasonic Electronic Components	https://industrial.panasonic.com/cdbs/www-data/pdf/ATB0000/ATB0000C14.pdf
35	BT1	Keystone_1058_1x20	1	Battery_Cell	Keystone Electronics Corporation	https://www.keyelco.com/userAssets/file/M65p4.pdf
36A	DS1	Eastrising_ER-CON3	1	SSD1306	East Rising Electronics, LTD	https://www.buydisplay.com/download/connector/ER-CON30HT-1.pdf
36B	DS1	SFV30R-4STBE1HLF	1	SSD1306	Amphenol Corporation	https://cdn.amphenol-icc.com/media/wysiwyg/files/documentation/datasheet/flex/flexconnectors_050mm.pdf
37	J5	USB_C_Receptacle_7	1	USB_C_Receptacle	Amphenol Corporation	https://cdn.amphenol-icc.com/media/wysiwyg/files/documentation/datasheet/inputoutput/io_usb_type_c.pdf
38	J3	JST_PH_B2B-PH-K_C	1	CONN_01X02	JST Manufacturing Incorporated	http://www.jst-mfg.com/product/pdf/eng/ePH.pdf
39	J1,J10	Pin_Header_Straight	2	CONN_HEAD	Amphenol Corporation	https://cdn.amphenol-icc.com/media/wysiwyg/files/drawing/68000.pdf
40	J8	Pin_Header_Straight	1	CONN_SOUTH	Amphenol Corporation	https://cdn.amphenol-icc.com/media/wysiwyg/files/drawing/68000.pdf
41	JP1	Pin_Header_Angled_1	1	Jumper	Amphenol Corporation	https://cdn.amphenol-icc.com/media/wysiwyg/files/drawing/68000.pdf
42	TP1	Pin_Header_Angled_1	1	GLITCH		
43	Z1	Potting_Compound	1	RTV_103	MG Chemicals	https://www.mgchemicals.com/products/rtv-silicones/adhesives/-sealants/rtv103/
44	Z2	Conformal_Coating	1	Sylgard_184	Dow Chemical	https://consumer.dow.com/content/dam/dcc/documents/en-us/productdatasheet/11/11-31/11-3184-sylgard-184-elastomer

ID	Supplier Main	Supplier Alt
1	https://www.arrow.com/en/products/0805n120j500ct/walsin-technology/	https://lcsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_12pF-120-5-50V_C152848.html
2	https://lcsc.com/product-detail/_0805B104K250_C128353.html	https://www.arrow.com/en/products/c0805c104m5uac7800/kemet-corporation/
3	https://www.arrow.com/en/products/cl21b225kpfnnne/samsung-electro-mechanics/	https://lcsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_SAMSUNG_CL21A225KOFNNE_2-2uF-
4	https://www.futureelectronics.com/p/capacitors--ceramic-capacitors--multilayer-ceramic-capacitors/cc0805zry5v7bb105-ya	https://lcsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_1uF-106-10-16V_C94122.html
5A	https://www.mouser.com/ProductDetail/KEMET/C1206C473G1GECTU/	https://www.futureelectronics.com/p/capacitors--ceramic-capacitors--multilayer-ceramic-capacitors/c3216c0g1h473j115aa-
5B	https://www.mouser.com/ProductDetail/KEMET/C0805C473M3GECTU/	https://de.rs-online.com/web/p/keramik-multilayer-kondensatoren/8029879/
6	https://www.arrow.com/en/products/rmcf0805ft10k0/stackpole-electronics/	https://www.futureelectronics.com/p/passives--resistors--fixed-resistors/rmcf0805ft10k0-stackpole-electronics-2617579/
7	https://www.arrow.com/en/products/rc0805fr-07100kl/yageo/	https://www.mouser.com/ProductDetail/Yageo/RC0805FR-07100KL/
8	https://www.arrow.com/en/products/rc0805fr-07150rl/yageo/	https://www.mouser.com/ProductDetail/Yageo/RC0805JR-07150RL/
9	https://www.arrow.com/en/products/rc0805jr-07390kl/yageo/	https://www.futureelectronics.com/p/passives--resistors--fixed-resistors/rc0805jr-07390kl-yageo-9907577/
10	https://www.arrow.com/en/products/rc0805jr-073k9l/yageo/	https://lcsc.com/product-detail/Chip-Resistor-Surface-Mount_3-9KR-3901-1_C114221.html
11	https://www.arrow.com/en/products/rc0805fr-071k5l/yageo/	https://lcsc.com/product-detail/Chip-Resistor-Surface-Mount_1-5KR-1501-1_C114555.html
12	https://www.arrow.com/en/products/rc0805fr-0722rl/yageo/	https://www.futureelectronics.com/p/passives--resistors--fixed-resistors/rc0805fr-0722rl-yageo-3012390
13	https://www.arrow.com/en/products/rc0805fr-0712kl/yageo/	https://lcsc.com/product-detail/Chip-Resistor-Surface-Mount_12KR-1202-1_C114556.html
14	https://www.arrow.com/en/products/rc0805fr-0722kl/yageo/	https://lcsc.com/product-detail/Chip-Resistor-Surface-Mount_22KR-2202-1_C114565.html
15	https://www.arrow.com/en/products/rc0805jr-07100rl/yageo/	https://lcsc.com/product-detail/Chip-Resistor-Surface-Mount_100R-100R-1_C105577.html
16	https://www.arrow.com/en/products/rc0805fr-071kl/yageo/	https://lcsc.com/product-detail/Chip-Resistor-Surface-Mount_1KR-1000-1_C95781.html
17	https://www.arrow.com/en/products/rc0805fr-072k4l/yageo/	https://lcsc.com/product-detail/Chip-Resistor-Surface-Mount_2-4KR-2401-1_C114521.html
18	https://www.arrow.com/en/products/rc0805fr-07510rl/yageo/	https://www.mouser.com/ProductDetail/Yageo/RC0805FR-07510RL/
19	https://www.arrow.com/en/products/mf-psmf020x-2/bourns/	https://www.mouser.com/ProductDetail/Bourns/MF-PSMF020X-2/
20	https://www.arrow.com/en/products/b130law-7-f/diodes-incorporated	https://lcsc.com/product-detail/Schottky-Barrier-Diodes-SBD_DIODES_B130LAW-7-F_B130LAW-7-F_C129191.html
21	https://www.arrow.com/en/products/5990140007f/dialight/	https://www.mouser.com/ProductDetail/Dialight/599-0140-007F/
22	https://www.arrow.com/en/products/5990110007f/dialight/	https://www.mouser.com/ProductDetail/Dialight/599-0110-007F/
23A	https://www.arrow.com/en/products/5990181007f/dialight/	https://www.mouser.com/ProductDetail/Dialight/599-0181-007F/
23B	https://www.arrow.com/en/products/5990191007f/dialight/	https://www.mouser.com/ProductDetail/Dialight/599-0191-007F/
24	https://www.arrow.com/en/products/sm0805uwc/bivar/	https://www.mouser.com/ProductDetail/Bivar/SM0805UWC/
25	https://www.arrow.com/en/products/dmg2302uk-7/diodes-incorporated/	https://lcsc.com/product-detail/MOSFET_Diodes-Incorporated_DMG2302U-7_Diodes-Incorporated-DMG2302U-7_C96613.
26	https://lcsc.com/product-detail/ST-Microelectronics_STMicroelectronics_STM32F405RGT6_STM32F405RGT6_C15742.htm	https://www.mouser.com/ProductDetail/STMicroelectronics/STM32F405RGT6/
27	https://lcsc.com/product-detail/Low-Dropout-Regulators-LDO_NATLINEAR-LN6206P332MR-G_C141407.html	https://www.digikey.com/product-detail/en/ablic-u-s-a-inc/S-1206B30-M3T1U/1662-1454-2-ND/
28	https://www.arrow.com/en/products/atecc608a-mahda-s/microchip-technology/	https://www.mouser.com/ProductDetail/Microchip-Technology/ATECC608A-MAHDA-S/
29	https://www.arrow.com/en/products/ataes132a-maher-t/microchip-technology/	https://www.mouser.com/ProductDetail/Microchip-Technology-Atmel/ATAES132A-MAHER-T/
30	https://www.arrow.com/en/products/ltr-303als-01/lite-on-technology/	https://www.mouser.com/ProductDetail/Lite-On/LTR-303ALS-01/
31	https://www.arrow.com/en/products/bma280/bosch/	https://www.mouser.com/ProductDetail/Bosch-Sensortec/BMA280/
32A	https://www.arrow.com/en/products/abm3b1-32.000mhz-10-b4y-t/abracon/	https://www.mouser.com/ProductDetail/ABRACON/ABM3B-32000MHz-10-B-1-U-T/
32B	https://www.arrow.com/en/products/abm3b-32.000mhz-b2-t/abracon/	https://www.futureelectronics.com/p/5950043/
33	https://www.arrow.com/en/products/pts645sh50smtr92lfs/ck/	https://www.mouser.com/ProductDetail/CK/PTS645SH50SMTR92LFS/
34	https://www.arrow.com/en/products/ese-11mv1t/panasonic/	https://www.mouser.com/ProductDetail/Panasonic/ESE-11MV1T/
35	https://www.mouser.com/ProductDetail/Keystone-Electronics/1058TR/	https://www.rutronik24.com/product/keystone/1058/7546581.html
36A	https://www.buydisplay.com/default/30-pin-0-5mm-pitch-top-contact-zif-connector-fpc-connector/	No alternative, please see Amphenol entry.
36B	https://www.arrow.com/en/products/sfv30r-4stbe1hlf/amphenol-fci/	https://www.mouser.com/ProductDetail/Amphenol-FCI/SFV30R-4STBE1HLF/
37	https://www.arrow.com/en/products/12401610e42a/amphenol/	https://www.mouser.com/ProductDetail/Amphenol-Commercial-Products/12401610E42A/
38	https://www.arrow.com/en/products/b2b-ph-k-s-lf-sn/jst-manufacturing/	https://www.futureelectronics.com/p/interconnect--connectors-pcb--header-plug-board-mount/b2b-ph-k-s-lf-sn-jst-6306179/
39	https://www.arrow.com/en/products/68001-420hlf/amphenol-fci/	https://www.mouser.com/ProductDetail/Amphenol-FCI/68001-420HLF/
40	https://www.arrow.com/en/products/68000-414hlf/amphenol-fci/	https://www.mouser.com/ProductDetail/Amphenol-FCI/68000-214HLF/
41	https://www.arrow.com/en/products/68001-402hlf/amphenol-fci/	https://www.futureelectronics.com/p/interconnect--connectors-pcb--header-plug-board-mount/68001-402hlf-amphenol-icc-fc
42		
43	https://www.arrow.com/en/products/rtv103-300ml/mg-chemicals/	https://www.mouser.com/ProductDetail/MG-Chemicals/RTV103-300ML/
44	Unknown	Unknown