

Part Number	Description	Manufacturer	Manufacturer Part Number	Component Designators	Component Count
C-XSR-10u-50V-20%-1210	Capacitor Ceramic XSR 10uF 50V 20% 1210	Generic	XSR-10uF-50V-20%-1210	C1, C7, C8	3
C-X7R-10nF-50V-10%-0603	Capacitor Ceramic X7R 10nF 50V 10% 0603	Generic	X7R-10nF-50V-10%-0603	C10, C26, C48, C85, C87, C89	6
C-X7R-6.8nF-16V-10%-0603	Capacitor Ceramic X7R 6.8nF 16V 10% 0603	Generic	X7R-6.8nF-16V-10%-0603	C11	1
C-XSR-22u-25V-20%-1210	Capacitor Ceramic XSR 22uF 25V 20% 1210	Generic	XSR-22uF-25V-20%-1210	C12, C13, C17	3
C-X7R-100n-16V-10%-0603	Capacitor Ceramic X7R 100nF 16V 10% 0603	Generic Phycomp Vishay	X7R-100nF-16V-10%-0603 223878615649 VJ0603Y104KJCW18C	C14, C16, C21, C23, C39, C40, C41, C45, C47, C49, C51, C66, C68, C72, C83, C33, C34, C86, C88, C90	20
C-XSR-2.2u-6.3V-20%-0603	Capacitor Ceramic XSR 2.2uF 6.3V 20% 0603	Generic	XSR-2.2uF-6.3V-20%-0603	C15	1
C-XSR-4.7u-10V-10%-0603	Ceramic Capacitor 4.7uF 10V 10% 0603	Generic	XSR-4.7uF-10V-10%-0603	C18, C19, C20, C22	4
C-XSR-1u-50V-20%-0603	Capacitor Ceramic XSR 1uF 50V 20% 0603	Generic	XSR-1uF-50V-20%-0603	C2, C5	2
C-NP0-47p-50V-10%-0603	Capacitor Ceramic NP0 47pF 50V 10% 0603	Generic	NP0-47pF-50V-10%-0603	C24, C25, C63, C64	4
C-X7R-100nF-50V-10%-0603	Capacitor Ceramic X7R 100nF 50V 10% 0603	Generic	X7R-100nF-50V-10%-0603	C3, C4, C6, C9, C61, C62, C65, C67, C69, C70, C71, C73, C84	13
C-TA-47u-6.3V-20%-3216	Capacitor TA 47uF 6.3V 20% 3216	Generic	TA-47uF-6.3V-20%-3216	C42, C43	2
C-TA-100uF-10V-20%-3528	Capacitor TA 100uF 10V 20% 3528	Generic	TA-100uF-10V-20%-3528	C44, C46	2
C-XSR-10uF-25V-20%-0805	Capacitor Ceramic XSR 10uF 25V 20% 0805	Generic	XSR-10uF-25V-20%-0805	C50, C54, C93	3
C-NP0-10p-50V-10%-0603	Capacitor Ceramic NP0 10pF 50V 10% 0603	Generic	NP0-10pF-50V-10%-0603	C55, C56, C57, C58, C59, C60	6
BAT-Keystone-3000	Battery Holder	Keystone	3000	BAT1	1
CON-Santec-TSW-101-07-G-D	Header male, 1x2 Pins, 2.54 mm pitch	FCI JVE Molex Molex Samtec	68000-202HLF 2181264-02S10 901201082 901200122 TSW-101-07-G-D	JP1	1
CON-Header-1x3-Male-2.54mm	Jumper, 3-Pin	JVE Tyco	2181264-03S10-01G-6/3 826936-3	JP2, JP3	2
CON-Tyco-1473005-1-200-0.6mm	SODIMM Connector	Tyco	1473005-1	X1	1
CON-Cenlink-M90-03011-03YD	SD/MMC Card Holder	Cenlink	M90-03011-03YD	X11	1
CON-Omron-XF2M-4015-1A-40-0.5mm	RGB Connector	Omron	XF2M-4015-1A	X12	1
CON-OSUB-15-MALE	15 pin male D-SUB connector	ALUK Unknown	HDR15SN-H HDBR-F15SB18-L	X13	1
CON-Santec-SSW-108-01-G-S-1X8-2.54mm	Female Header, 8-Pin, 2.54mm Pitch	Samtec	SSW-108-01-G-S	X15, X17	2
CON-Header-1x6-Female-2.54mm	Header Receptacle 1x6 pin 2.54mm pitch, Female	JVE Samtec	2288561-06S108-01G SSW-106-01-G-S	X16	1
CON-Santec-SSW-110-01-G-S-1X10-2.54mm	Female Header, 10-Pin, 2.54mm Pitch	Samtec	SSW-110-01-G-S	X18	1
CON-Header-2x3-2.54mm	Header Male, 2x3 Pins, 2.54mm pitch	Amtek Samtec	PH1S25-203GB6.0-3.0-L TSW-103-07-G-D	X19	1
CON-Wurth-694103107102	Barrel Power Connector, 3.5mm (OD) / 1.35mm (ID)	Würth Elektronik	694103107102	X2	1
CON-Header-2x20-Male-2.54mm	Header, 2x20 Pins, 2.54 mm pitch	Amtek JVE	PH1S25-220GB-6/3-U 21822564-40S108-01G	X20	1
CON-MM-823-22-006-10-000101	JTAG Pogo pins	Mill-Max Manufacturing Corp	823-22-006-10-000101	X21	1
CON-Omron-XF2M-1015-1A	FFC Connector, Rotary Lock, Top Bottom Contact 10 pins 0.5mm pitch	Omron	XF2M-1015-1A	X3	1
CON-Molex-47589-0001-5-0.65	Micro USB 2.0 OTG Connector	Molex	47589-0001	X4, X10	2
CON-Santec-FTSH-105-01-L-DV-1X10-1.27mm	Male Header, 10-Pin, 1.27mm Pitch	Samtec	FTSH-105-01-L-DV-K	X6	1
CON-Xunwang-XWRJ-1104C1009-3-1	RJ45 Connector (with Magnetics)	Xunwang	XWRJ-1104C1009-3-1	X8	1
CON-USB-2x-Type-A	USB 2.0 double row, Type A	Amtek ALUK Mill-Max Manufacturing Corp	USB-002-AW-L USB1X04SR8(BK)-H 896-43-008-90-000000	X9	1
D-DiodesInc-SMBJ6.0A-13-F	Unidirectional TVS protection	Diodes	SMBJ22CA-13-F	D1	1
D-DiodesInc-SMD-B130-13-F-30V-1A	Diode Schottky, SMD, B130-13-F, 30V, 1A	Diodes Inc.	B130-13-F	D2	1
D-TI-TPD2EUSB30DRTR	Uni-Directional ESD Protection Diode, 2-Channels	Texas Instruments	TPD2EUSB30DRTR	D5, D8, D11	3
D-Semtech-RClamp0504S-ESD-5V-+/-8KV(Contact)-+/-15KV(Air)	TVS Array low cap	Semtech	RClamp0504S	D6, D7	2
D-Philips-BAT54C-Schottky-30V-200mA	BAT54 Schottky Diode	Fairchild Semiconductor NXP	BAT54C BAT54C	D9, D10	2
IC-DiodesInc-AP6503SP-13	Sync DC/DC Buck Converter, 3A, 340kHz	Diodes Inc.	AP6503SP-13	IC1	1
IC-AD-ADV7125KSTZ140	Video DAC 8bit 140MHz	Analog Devices	ADV7125KSTZ140	IC10	1
IC-Fairchild-FXMA1088QX	8-Bit Bidirectional Voltage-Level Translator, 20-DQFN 2.5X4.5mm	Fairchild Semiconductor	FXMA1088QX	IC11, IC12	2
IC-TI-PCA9306DCTT	Dual Bidirectional I2C and SMBus Voltage-Level Translator, TSSOP package	Texas Instruments	PCA9306DCTT	IC13	1
IC-FTDI-FT232RL	FT232R USB TO UART	FTDI FTDI	FT232RL FT232RL (TUBE)	IC2	1
IC-TI-TPS2042BD	Dual High Side Switch With OC_DET 500mA/CH	Fairchild Texas Instruments Texas Instruments	FAN8303MX TPS2042BD TPS2042BDG4	IC7	1
IC-TI-SN74LVC1G17	Single Schmitt-Trigger Buffer, Package SO70, 5 Pins	Texas Instruments	SN74LVC1G17	IC8, IC9	2
L-TaiyoYuden-NRS8040T100MJGV-10uH-3.8A-20%-34mohm	Power Inductor 10uH, 3.8A, 34mOhm (DRC), Shielded, 8mm X 8mm X 4mm	Taiyo Yuden	NRS8040T100MJGV	L1	1
L-Murata-DLW21SN900SQ2-90R@100MHz-330mA-25%	Common Mode Choke High Speed 90R 330mA	Murata	DLW21SN900SQ2L DLW21SN900SQ2-90R@100MHz-330mA-25%	L11, L12	2
L-TDK-MMZ16085-400A-40R@100MHz-600mA-25%-0603	40R@100MHz 600mA EMI FILTER	Generic TDK	MMZ16085-400A-40R@100MHz-600mA-25%	L18, L19, L20	3
Lemv-39R-10A-25%	Power Supply FB 10A	Laird Steward	35F0121-0SR-10 35F0121-0SR-10-10A-25%	L2, L3	2
L-220R@100MHz-2A-25%-0603	220R@100MHz 2A EMI FILTER	Generic TDK	220R@100MHz-2A-25%-0603 MPZ1608S221A	L4, L5, L7, L9, L10, L13, L14, L15, L16, L17, L21	11
L-33R@100MHz-2A-0805	EMI Filter, Ferrite bead, 33R@100MHz, 2A	Generic Taiyo Yuden	33R@100MHz-2A-0805 BKP2125H5330-T	L6	1
LED-Osram-LG-R971-KN-1	LED green Osram LG R971-KN-1 0805	Osram / OSRAM Opto Semiconductors	LGR971-KN-1	LED1, LED4	2
MECH-Screw-Plastic-M3x4mm	Screw, M3x4mm	Generic	Screw-Plastic-M3x4mm	MECH13, MECH14, MECH15, MECH16	4
MECH-Nut-Plastic-M3x8mm	Screw Nut Hexagonal, M3x8mm spacer	Generic	Nut-Plastic-M3x8mm	MECH17, MECH18, MECH19, MECH20	4
MECH-Shunt-Jumper-Black-2.54mm	Shunt Jumper	JVE	S1002-OPS60-01G	SJP1, SJP2, SJP3	3
PCB Aster	PCB	Generic	PCB Aster V1.1.001	PCB Aster	1
Label: "Aster V1.1B 01431101+serial"	Label	Generic	Label	LBL1	1
R-150R-63mW-1%-0603	Resistor 150 ohm 63mW 1% 0603	Generic	150R-63mW-1%-0603	R1, R59, R60, R135	4
R-75R-63mW-1%-0402	Resistor 75 ohm 63mW 1% 0402	Generic	75R-63mW-1%-0402	R101, R102, R103	3

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R-33R-63mW-5%-0603	Resistor 33 ohm 63mW 5% 0603	Generic	33R-63mW-5%-0603	R104, R105	2
R-22R-63mW-5%-0603	Resistor 22 ohm 63mW 5% 0603	Generic	22R-63mW-5%-0603	R11, R73, R108, R130, R131, R85, R86, R97	8
R-200KR-63mW-5%-0603	Resistor 200 Kohm 63mW 5% 0603	Generic	200KR-63mW-5%-0603	R119	1
R-4.7KR-63mW-5%-0603	Resistor 4.7 Kohm 63mW 5% 0603	Generic	4.7KR-63mW-5%-0603	R12, R13, R115, R116	4
R-100K-63mW-5%-0603	Resistor 100 Kohm 63mW 5% 0603	Generic	100KR-63mW-5%-0603	R2, R109, R110, R136	4
R-1MR-63mW-5%-0603	Resistor 1Mohm 63mW 5% 0603	Generic	1MR-63mW-5%-0603	R27, R28	2
R-6.8KR-63mW-1%-0603	Resistor 6.8Kohm 63mW 1% 0603	Generic	6.8KR-63mW-1%-0603	R3	1
R-26.1KR-63mW-1%-0603	Resistor 26.1 Kohm 63mW 1% 0603	Generic	26.1KR-63mW-1%-0603	R4	1
R-10KR-63mW-5%-0603	Resistor 10 Kohm 63mW 5% 0603	Generic	10KR-63mW-5%-0603	R5, R71, R72, R79	4
R-50R-63mW-1%-0603	Resistor 50 ohm 63mW 1% 0603	Generic	50R-63mW-1%-0603	R55, R56, R57, R58	4
R-15KR-63mW-1%-0603	Resistor 15 Kohm 63mW 1% 0603	Generic	15KR-63mW-1%-0603	R62, R63, R64, R65	4
R-560R-63mW-5%-0603	Resistor 560 ohm 63mW 5% 0603	Generic	560R-63mW-5%-0603	R68, R91	2
R-1KR-63mW-5%-0603	Resistor 1 Kohm 63mW 5% 0603	Generic	1KR-63mW-5%-0603	R69	1
R-0R-63mW-1%-1206	Resistor 0 ohm 63mW 1% 1206	Generic Panasonic	0R-63mW-1%-1206 ERJ-8GEY0R00V	R70, R141, R96	3
R-33KR-63mW-5%-0603	Resistor 33 Kohm 63mW 5% 0603	Generic	33KR-63mW-5%-0603	R74	1
R-68KR-63mW-5%-0603	Resistor 68 Kohm 63mW 5% 0603	Generic	68KR-63mW-5%-0603	R75, R76, R77, R78	4
R-0R-63mW-1%-0603	Resistor 0 ohm 63mW 1% 0603	Generic Multicomp Panasonic / Panasonic ECG	0R-63mW-1%-0603 MCO.063W06030R ERJ-3GEY0R00V	R8, R25, R26, R54, R61, R66, R67, R81, R83, R84, R107, R112, R120, R122, R124, R127, R128, R88, R94, R51	20
RA-22R-63mW-5%-4x0603	Resistor Array 22 R 63mW 5% 4x0603	Generic	22R-63mW-5%-4x0603	RA1, RA2, RA3, RA4, RA5, RA6, RA7, RA8, RA9, RA10, RA12, RA13, RA14, RA15, RA16, RA17, RA18, RA19, RA20, RA21	20
T-DiodeInc-DMG1012T	N-Channel 20V (D-S) MOSFET	Diodes Inc.	DMG1012T-7	T4, T5	2