

# Component list

BOM Arrow-PolarFire-FPGA-Rev.B For Variant [-Variante-Reset-Changes] of Project [Arrow\_PolaFire\_FPGA-Rev.B.Prj]

Source Data From:

Project:

Variant:

Arrow\_PolaFire\_FPGA-Rev.B.PrjPCB

Arrow\_PolaFire\_FPGA-Rev.B.PrjPCB

-Variante-Reset-Changes



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#	Designator	Comment	MFG	MFG PART NO.	Description	Layer	Footprint	Quantity	Notice
1	C12, C133	1nF 0603	AVX	0603YC102KAT4A	1nF, 10%, 16V, X7R, 0603	Top	0603 CC(1608)_IPC	2	
2	C18, C19, C27, C30, C31, C37, C38, C51, C93, C122, C123, C140, C450	1uF 0603	AVX	0603YD105KAT2A	1uF, 10%, 16V, X5R, 0603	Top	0603 CC(1608)_IPC	13	
3	C151, C154	10pF 0402	TDK	C0402C0G1C100D020BC	10pF, 5%, 16V, COG, 0402	Top	0402 CC(1005)_IPC	2	
4	C6, C14, C16, C17, C20, C28, C32, C36, C67, C72, C127, C134, C135, C139, C143, C576, C582	10uF 0603 10V	AVX	0603ZD106MAT2A	10uF, 20%, 10V, X5R, 0603	Top	0603 CC(1608)_IPC	17	
5	C22, C24, C100, C101, C111, C114, C119, C131, C136, C138, C141, C148	22uF 1210	Murata	GRM32ER71E226KE15L	22uF, 10%, 25V, X7R, 1210	Top	1210	12	
6	C152, C153	56nF 0603	Multicomp	MCCA000251	56nF, 10, 50V, X7R, 0603	Top	0603 CC(1608)_IPC	2	
7	U30	74LV2G240DCU	Texas	74LV2G240DCU	Dual Inverter 3-state	Top	DCU8	1	
8	U37	93LC56BT-IOT	Microchip	93LC56BT-IOT	2kbit uWire EEPROM	Top	SOT23-6AM	1	
9	C3, C8, C15, C29, C33, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C579, C580	100nF 0201	Murata	GRM033R60J104KE19D	100nF, 10%, 6.3V, X5R, 0201	Top	0201	25	
10	C1, C2, C4, C5, C7, C9, C13, C21, C26, C34, C35, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C52, C53, C60, C62, C64, C65, C66, C68, C73, C78, C81, C94, C95, C96, C97, C98, C103, C104, C112, C115, C121, C125, C129, C132, C142, C144, C145, C146, C150, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C179, C183, C383, C389, C435, C436, C438, C439, C457, C571, C572, C577, C578, C581, C583	100nF 0402	AVX	0402YD104KAT2A	100nF, 10%, 16V, X5R, 0402	Top	0402 CC(1005)_IPC	83	
11	C10, C11, C105, C106, C108, C109, C124, C126, C128, C147	100pF 0402	Murata	GRM1555C1H101JA01D	100pF, 5%, 50V, COG, 0402	Top	0402 CC(1005)_IPC	10	
12	C23, C25, C99, C102, C110, C113, C116, C117, C118, C120, C130, C137, C149	100uF 1206	Murata	GRM31CD80J107ME39L	100uF, 20%, 6V3, X6T, 1206, Ceramic	Top	1206	13	
13	C218	120nF 0402	Murata Electronics North America	GRM155R61A124KE19D	120nF, 10%, 10V, X5R, 0402	Top	0402 CC(1005)_IPC	1	
14	C107	220nF 0402	Murata Electronics North America	GRM155R71A224KE01D	220nF, 10%, 10V, X7R, 0402	Top	0402 CC(1005)_IPC	1	
15	U3	ADV7513BSWZ	Analog Devices	ADV7513BSWZ	HDMI v1.4 Transmitter	Top	S-PQFP-G64	1	
16	J7	ASP-134486-01	Samtec	ASP-134486-01	FMC HPC Baseboard	Top	ASP-134486-01-HPC	1	
17	S5	CAS	Copal Electronics Inc.	CAS-120B		Top	CAS	1	
18	U40	CAT24C256HU4IGT3	ON Semiconductor	CAT24C256HU4IGT3	EEPROM Speicher-IC 256 Kb (32 K x 8) FC 1MHz 500 ns 8-UDFN-EP (2x3)	Top	ATML-8MA2-8_V	1	
19	J8	CONN_JACK_PWR_2.5mm	CUI	PJ-102BH	Power connector	Top	PJ-102BH	1	
20	Y3	CRYSTAL 12.000 MHz	AVX	CX3225SB12000D0GZJC1	CRYSTAL 12.000 MHz 10pF SMD 3.2mmx2.5mm	Top	ABM8	1	
21	L2, L13, L14	FB, 120R, 3A, 1206	Murata	BLM31PG121SN1L	Ferrite Bead, 120R at 100 MHz, 3A, 1206	Top	8-1206	3	
22	L1, L3, L6, L9, L10, L11, L12	FB, 470R, 1A, 0603	Murata	BLM18PG471SN1D	Ferrite Bead, 470R at 100 MHz, 1A, 0603	Top	INDC0603N	7	
23	L4, L8	FB, 600R, 500mA, 0603	Murata	BLM18AG601SN1D	Ferrite Bead, 600R at 100 MHz, 500mA, 0603	Top	INDC0603N	2	
24	U31	FT4232HL	FDTI	FT4232HL	Quad USB to UART	Top	PQFP-64	1	
25	F1	FUSE PTC, 0.75A, 6V, 0805	Littlefuse	0805L075SLYR	PTC RESETTABLE 1.5A 6V 0805	Top	6-0805	1	
26	F3, F4	FUSE PTC, 4.5A, 6V, 1210	Littlefuse	1210L450SLWR	PTC RESETTABLE 4.5A 6V 1210	Top	1210	2	
27	J2	HDMI conn 19 SMD TE	TE	1747981-1	cnt. HDMI ver1.4, Surface Mount, 19-Position	Top	HDMI-19-01-S-SM	1	
28	P2	Header 3			Header, 3-Pin	Top	HDR1X3	1	
29	J3, J4, J5	JXD1-0026NL	Pulse	JXD1-0026NL	Gigabit Magnetic Jack, 1x1 LEDs: Green/Yellow - TabUp	Top	JD1-0002NL	3	

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30	U29	LTC2924CGN	Linear	LTC2924CGN#PBF	4-channel Power Supply Sequencer	Top	SSOP16	1
31	U34	LTC4353IMS	Linear	LTC4353IMS	Dual Low Voltage Ideal Diode Controller	Top	MSOP16	1
32	U22, U23, U26	LTM4622EY	Linear	LTM4622EY#PBF	Dual 2.5A or Single 5A Step-Down DC/DC $\mu$ Module	Top	LGA-25	3
33	U5, U6, U27, U33	LTM4625EY	Linear	LTM4625EY#PBF	20VIN, 5A Step-Down DC/DC $\mu$ Module Regulator	Top	LGA-25	4
34	U24	LTM4649EY	Linear	LTM4649EY#PBF	10A Step-Down DC/DC $\mu$ Module Regulator	Top	BGA68-15X9X4.92	1
35	K1	Miniature SMD Switch	Omron	B3U-1000P	B3U-1000P	Top	B3U-1000P	1
36	U18	MPF300TS-1FCG1152	Microsemi	MPF300TS-1FCG1152	Polarfire FPGA FCG1152	Top	FBGA-1152	1
37	U11, U12, U25	MT41K512M16	Micron	MT41K512M16HA-107	DDR3L - 8Gb x16	Top	FBGA-96	3
38	U10, U21	MX66U1G45GM00	Macronix	MX66U1G45GM00	1.8V 1G-BIT [x 1/x 2/x 4] (SERIAL MULTI I/O) FLASH MEMORY	Top	SOIC16_N	2
39	IC1, IC3	NCP303LSN	ON Semiconductor	NCP303LSN16T1G, NCP303LSN31T1G	Supervisor Open Drain oder offener Kollektor 1 Kanäle 5-TSOP	Top	TSOT-5_SC59_CASE483	2
40	IC2	NLSV1T34DFT2G	ON Semiconductor	NLSV1T34DFT2G	Voltage Level Translator Unidirectional 1 Circuit 1 Channel SC-88A (SC-70-5 / SOT-353)	Top	SC70-5	1
41	U8, U32	NLSV4T244DTR2G	ON Semiconductor	NLSV4T244DTR2G	Voltage Level Translator Unidirectional 1 Circuit 4 Channel 14-TSSOP	Top	TSSOP-ST14_N	2
42	K2	OS102011MS2QN1	C&K	OS102011MS2QN1	Switch Slide SPDT	Top	Switch_Slide_SPDT	1
43	Y4	OSC 50MHz CMOS, 2.5 to 3.3V	Microchip	DSC1121CI2-050.0000	OSC - 50MHZ, 25PPM, 2.5 to 3.3V, MEMS, SMD	Top	OSC-3.2x2.5mm	1
44	Y1, Y2	OSC 125MHz CMOS, 2.5 to 3.3V	Microchip	DSC1121CI2-125.0000T	OSC - 125MHZ, 25PPM, 2.5 to 3.3V, MEMS, SMD	Top	OSC-3.2x2.5mm	2
45	X1	OSC MEMS 156.25MHz LVDS	Microchip	DSC1123CI1-156.2500	OSC MEMS 156.25MHz LVDS	Top	OSC-3.2x2.5mm - 6p	1
46	U39	PCT2075GVX	NXP USA Inc.	PCT2075GVH	I2C-Bus Fm+, 1 Degree C Accuracy, Digital Temperature Sensor and Thermal Watchdog, 2.7 to 5.5 V Supply, -55 to 125 degC, 6-Pin SOT1351-1, RoHS, Reel	Top	NXP-SOT1353-1_N	1
47	P1	PMOD_DualRow	Samtec	SSW-106-02-F-D-RA	2.54mm, 12pin, dual row, PMOD	Top	SSW-106-02-D-RA	1
48	D1, D2, D3, D4, D5, D6, D8, D18, D19	QTLP601C4	Everlight	QTLP601C4	Low Profile Chip LED 0603, Green	Top	1.6X0.8X0.6	9
49	D7	QTLP601CR	Everlight	QTLP601CR	Low Profile Chip LED 0603, Red	Top	1.6X0.8X0.6	1
50	R38, R113, R238, R239, R249, R253, R254, R255, R256, R257, R258, R259, R260, R261, R263, R264, R265, R279, R280, R281, R282, R283, R284, R285, R286	R, 0R, 0402	Vishay	CRCW04020000Z0ED	R, 0R, 0402	Top	0402 CR(1005)_IPC	25
51	R26, R27, R66, R67, R75, R77, R82, R91	R, 0R, 0805	Vishay	CRCW08050000Z0	R, 0R, 0805	Top	RESC0805M	8
52	R79	R, 0R, 1210	Vishay	CRCW12100000Z0	R, 0R, 1210	Top	RESC1210M	1
53	R121, R232, R236, R250, R271	R, 1K, 0402	Vishay	CRCW04021K00FKED	R, 1K, 1%, 0402	Top	0402 CR(1005)_IPC	5
54	R6, R7, R28, R122	R, 2K, 1%, 0402	Vishay	CRCW04022K00FKED	R, 2K, 1%, 0402	Top	0402 CR(1005)_IPC	4
55	R22, R24, R29, R30, R31, R32, R48, R52, R58, R59, R60, R124, R244	R, 4.7K, 1%, 0402	Vishay	CRCW040214K7FKED	R, 4.7K, 1%, 0402	Top	0402 CR(1005)_IPC	13
56	R101	R, 7K68, 1%, 0402	Vishay	CRCW04027K68FKED	R, 7K68, 1%, 0402	Top	0402 CR(1005)_IPC	1
57	R84	R, 8K25, 1%, 0402	Vishay	CRCW04028K25FKED	R, 8K25, 1%, 0402	Top	0402 CR(1005)_IPC	1
58	R99	R, 9K31, 1%, 0402	Vishay	CRCW04029K31FKED	R, 9K31, 1%, 0402	Top	0402 CR(1005)_IPC	1
59	R106	R, 10K7, 1%, 0402	Vishay	CRCW040210K7FKED	R, 10K7, 1%, 0402	Top	0402 CR(1005)_IPC	1
60	R1	R, 10K, 5%, 0603	Vishay	CRCW060310K0JNEA	R, 10K, 5%, 0603	Top	0603 CR(1608)_IPC	1
61	R13, R16, R18, R23, R33, R34, R37, R73, R92, R94, R95, R97, R116, R117, R118, R119, R123, R159, R237, R242, R247, R248, R252	R, 10K, 0402	Vishay	CRCW040210K0FKED	R, 10K, 1%, 0402	Top	0402 CR(1005)_IPC	23
62	R19, R21, R90, R107, R108, R109, R112, R115, R125, R126	R, 10R, 1%, 0402	Vishay	CRCW040210R0FKED	R, 10R, 1%, 0402	Top	0402 CR(1005)_IPC	10
63	R86, R93	R, 13K3, 1%, 0402	Vishay	CRCW040213K3FKED	R, 13K3, 1%, 0402	Top	0402 CR(1005)_IPC	2
64	R104	R, 17.4K, 1%, 0402	Yageo	CRCW040217K4FKED	R, 17K4, 1%, 0402	Top	0402 CR(1005)_IPC	1
65	R76, R78	R, 19K1, 1%, 0402	Vishay	CRCW040219K1FKED	R, 19K1, 1%, 0402	Top	0402 CR(1005)_IPC	2
66	R96	R, 21K, 0402	Vishay	CRCW040221K0FKED	R, 21K, 1%, 0402	Top	0402 CR(1005)_IPC	1
67	R98	R, 24.9K, 1%, 0402	Vishay	CRCW040224K9FKED	R, 24.9K, 1%, 0402	Top	0402 CR(1005)_IPC	1
68	R11, R100, R140	R, 30K1, 1%, 0402	Yageo, Vishay	RC0402FR-0730K1L, RC0402FR-0730K1	R, 30K1, 1%, 0402, R, 30.1K, 1%, 0402	Top	0402 CR(1005)_IPC	3
69	R17, R20, R39, R41, R42, R50, R51, R53, R54, R56, R80, R81, R246	R, 33R, 0402	Vishay	CRCW040233R0FKED	R, 33R, 0402	Top	0402 CR(1005)_IPC	13
70	R47, R102	R, 39R, 1%, 0402	Vishay	CRCW040239R0FKED	R, 39R, 1%, 0402	Top	0402 CR(1005)_IPC	2
71	R143	R, 43k2, 1%, 0402	Vishay	CRCW040243K2FKED	R, 43k2, 1%, 0402	Top	0402 CR(1005)_IPC	1
72	R2, R5	R, 47K, 0402	Vishay	CRCW040247K0FKED	R, 47K, 1%, 0402	Top	0402 CR(1005)_IPC	2
73	R10	R, 48K7, 1%, 0402	Vishay	CRCW040248K7FKED	R, 48K7, 1%, 0402	Top	0402 CR(1005)_IPC	1
74	R142	R, 52K3, 1%, 0402	Vishay	CRCW040252K3FKED	R, 52K3, 1%, 0402	Top	0402 CR(1005)_IPC	1
75	R69	R, 80K6, 1%, 0402	Vishay	CRCW040280K6FKED	R, 80K6, 1%, 0402	Top	0402 CR(1005)_IPC	1

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76	R68	R, 90K9, 1%, 0402	Yageo	RC0402FR-0790K9L	R, 90K9, 1%, 0402	Top	0402 CR(1005)_IPC	1	
77	R3, R4, R14, R89	R, 100K, 0402	Vishay	CRCW0402100KFKED	R, 100K, 1%, 0402	Top	0402 CR(1005)_IPC	4	
78	R212	R, 100K, 0402	Vishay	CRCW0402100KFKED	R, 100K, 1%, 0402	Top	3P0402	1	
79	R44, R45, R46, R61, R62, R158, R167	R, 100R, 1%, 0402	Vishay	CRCW0402100RFKED	R, 100R, 1%, 0402	Top	0402 CR(1005)_IPC	7	
80	R8, R9, R70, R71, R74, R85, R87, R88, R114	R, 150K, 1%, 0402	Vishay	CRCW0402150KFKED	R, 150K, 1%, 0402	Top	0402 CR(1005)_IPC	9	
81	R55, R57, R65, R72, R275, R276	R, 220R, 1%, 0402	Vishay	CRCW0402220RFKEAHP	R, 220R, 1%, 0402	Top	0402 CR(1005)_IPC	6	
82	R83, R103, R105	R, 270R, 0402	Vishay	CRCW0402270RFKED	R, 270R, 0402	Top	0402 CR(1005)_IPC	3	
83	R120	R, 510R, 1%, 0402	Vishay	CRCW0402510RFKED	R, 510R, 1%, 0402	Top	0402 CR(1005)_IPC	1	
84	R15, R25, R43, R63, R64	R, 680R, 1%, 0402	Yageo	RC0402FR-07680RL	R, 680R, 1%, 0402	Top	0402 CR(1005)_IPC	5	
85	R12	R, 887R, 1%, 0402	Multicomp	MC 0.0625W 0402 1% 887R	R, 887R, 1%, 0402	Top	0402 CR(1005)_IPC	1	
86	RN1, RN2, RN3, RN4, RN5, RN6	RN0402x8-39R	Panasonic	EXB-2HV390JV	RN8, 39R, 5%, 0402x8	Top	EXB2HV	6	RN8, 39R, 5%, 0402x8
87	J1	SFP+ TE	TE	1888247-2 // 2110304-1	SFP+ MSA TE	Top	747540103	1	
88	U35, U36	Si4126DY-T1-GE3	Vishay	Si4126DY-T1-GE3	N Pow er-Transistor, 30V 39A SO8	Top	SOIC127P600-8CM	2	
89	IC4	SIP32416DNP	Vishay Siliconix	SIP32416DNP-T1-GE4	IC SW W/CTRL SLEW RATE 8TDFN	Top	8-TDFN-(2x2)_M	1	
90	U2	SN65LVDS1DBV	Texas	SN65LVDS1DBV	Single LVCMOS ->LVDS TX	Top	SOT23-5AM	1	
91	U15, U16	SN65LVDS4RSET	Texas	SN65LVDS4RSET	500 Mbps Receiver with LVDS Input / LVCMOS Output	Top	uQFN-10	2	
92	U9	SN74LVC1G08DSFR	Texas	SN74LVC1G08DSFR	Single 2-Input Positive-AND Gate	Top	PSON-6-DSF	1	
93	D9	SP1003-01DTG	Littelfuse	SP1003-01DTG	SP1003-01DTG, TVS, ESD 5V, 0402	Top	0402 CC(1005)_IPC	1	
94	S1, S9	Sw itch CAS, SMD, 2 VIAS	Copal Electronics Inc.	CAS-120B		Top	CAS	2	
95	S8	Sw itch DL, SMD, 2 VIAS	Multicomp	MCDHN-02F-T-V	Sw itch DL, SMD, 2 VIAS	Top	MCDHN-02F-T-V	1	
96	S2, S3, S4, S6, S7, S10	TL3301AF160QJ	E-Sw itch	TL3301AF160QJ	SMD Tactile Sw itch	Top	TL3301	6	
97	TP1, TP2, TP3, TP4, TP5, TP6, TP7	TP_SMD			Test Point SMD	Top	TP_SMD	7	Tespoint
98	U38	TPD2EUSB30DRTR	Texas	TPD2EUSB30DRTR	2-lines ESD-TV S Data Protection USB 3.0	Top	DRT-PDDSO-N3	1	
99	U1	TPD12S521DBTR	Texas	TPD12S521DBTR	HDMI TX ESD Protection	Top	DBT38	1	
100	U7, U28	TPS51200DRCT	Texas	TPS51200DRCT	DDR-III Termination Regulator	Top	SON-10	2	
101	J9	USB, MINI-AB, SMT	TE	1734035-1	USB, MINI-AB, SMT	Top	MOLEX-56579-0576	1	
102	U4	VSC8575XKS	Microsemi	VSC8575XKS	Quad-port 1GbEPHY, SyncE + Veritime	Top	FBGA256_A-155	1	
103	U19	ZL30265LD	Microsemi	ZL30265LD	2-APLL, 6 outputs, Ant-to-Any Clock Synthesizer	Top	QFN8X8-56	1	
104	U14	ZL30722LD	Microsemi	ZL30722LD	IEEE1588 and SyncE Network Synchronizer	Top	QFN50P5X5-32WBM	1	
105	U13, U17, U20	ZL40213	Microsemi	ZL40213LDG1	1:2 LVDS Buffer w termination	Top	VQFN16	3	
106	M7	AC CORD EUROPE C7 18AWG 6' BLACK	CUI Inc.	AC-C7 EU	6.00' (1.83m) Pow er Cord Black CEE 7/16 To IEC 320-C7 SPT-2	None		1	Supply Cable
107	M6	AC/DC DESKTOP ADAPTER 12V 60W	CUI Inc.	SDI65-12-UD-P6	12V 60W AC/DC External Desktop (Class II) Adapter Cord (Sold Separately) Input	None		1	Pow er Supply
108	M8	Adapter, EU-Stecker mit 2 Pins zu UK-Stecker, schneller Anschluss	POWERCONNECTIONS	CP1B BLACK	6.00' (1.83m) Pow er Cord Black CEE 7/16 To IEC 320-C7 SPT-2	None		1	Pow er Adapter
109	M10	Board package				None		1	Board package
110	M9	CP4A - Netzsteckeradapter, Euro, US, 3 A, Schwarz	POWERCONNECTIONS	CP4A	6.00' (1.83m) Pow er Cord Black CEE 7/16 To IEC 320-C7 SPT-2	None		1	Pow er Adapter
111	M12	Instruction paper / License				None		1	Paper / License
112	M11	Package Label				None		1	Package Label
113	M5	USB Cable	CNC Tech	101-1031-BL-00100	CABLE USB A MALE-B MINI 5PIN 1M	None		1	USB Cable
114	C56, C57, C58, C59, C70, C74, C75, C376, C382, C384, C388, C392, C393, C401, C402, C408, C409, C418, C419, C424, C425, C426, C427, C428, C429, C432, C449, C460, C471	1uF 10V 0402	TDK	CGB2A1X6S1A105M033BC	CAP CER 1UF 10V X6S 0402	Bottom	0402 CC(1005)_IPC	29	
115	C203	1uF 0603	AVX	0603Y D105KAT2A	1uF, 10%, 16V, X5R, 0603	Bottom	0603 CC(1608)_IPC	1	
116	C184	4.7uF 0402	Murata	GRM155R60G475ME	4.7uF, 20%, 4V, X5R, 0402	Bottom	0402 CC(1005)_IPC	1	
117	C172, C173, C391, C437, C462, C504, C515, C516, C543, C544, C547	10uF 0603 10V	AVX	0603ZD106MAT2A	10uF, 20%, 10V, X5R, 0603	Bottom	0603 CC(1608)_IPC	11	

118	C189, C190, C191, C192, C193, C194, C195, C196, C197, C198, C199, C202, C204, C205, C206, C207, C208, C209, C210, C211, C212, C213, C214, C215, C216, C219, C220, C221, C222, C223, C224, C225, C226, C227, C229, C230, C231, C232, C235, C236, C237, C238, C240, C241, C242, C243, C245, C246, C247, C248, C249, C250, C252, C254, C255, C256, C257, C258, C259, C260, C261, C262, C263, C264, C265, C266, C267, C268, C270, C271, C272, C273, C274, C275, C276, C279, C280, C281, C282, C283, C284, C285, C288, C289, C290, C291, C292, C293, C294, C295, C297, C298, C299, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C325, C326, C327, C328, C329, C330, C331, C332, C333, C334, C335, C336, C337, C339, C340, C341, C342, C343, C344, C345, C346, C348, C349, C350, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C364, C365, C366, C367, C368, C369, C370, C371, C372, C373, C374, C375, C377, C378, C379, C380, C381, C385, C386, C387, C390, C394, C395, C396, C397, C398, C399, C403, C404, C405, C406, C407, C410, C413, C414, C415, C416, C420, C421, C422, C423, C430, C431, C433, C434, C440, C441, C442, C444, C447, C448, C451, C452, C455, C456, C458, C459, C463, C464, C465, C466, C467, C468, C469, C470, C472, C473, C474, C475, C476, C477, C478, C479, C480, C481, C482, C483, C484, C485, C486, C487, C488, C489, C490, C491, C492, C493, C494, C495, C496, C497, C498, C499, C500, C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549	100nF 0201	Murata	GRM033R60J104KE19D	100nF, 10%, 6.3V, X5R, 0201	Bottom	0201	285
119	C54, C55, C171, C174, C175, C176, C177, C178, C180, C181, C182, C185, C186, C200, C201, C228, C233, C234, C239, C244, C251, C253, C269, C277, C278, C286, C287, C296, C347, C400, C411, C412, C417, C443, C445, C446, C453, C454, C461, C477, C493, C517, C518, C532, C541, C545, C546, C548, C549	100nF 0402	AVX	0402YD104KAT2A	100nF, 10%, 16V, X5R, 0402	Bottom	0402 CC(1005)_IPC	49
120	C187, C188	470nF 0603	Kemet	C0603C474K3RAC7867	470nF, 10%, 25V, X7R, 0603	Bottom	0603 CC(1608)_IPC	2
121	C550, C551, C552	470nF 0603	Murata	GRM188F51A474ZA01D	470nF, 20%, 10V, Y5V, 0603	Bottom	0603 CC(1608)_IPC	3
122	Q5	BAT54	Fairchild	BAT54	Schottky Diode SOT23	Bottom	SOT23_N	1
123	D10, D11, D12, D13, D14, D15, D16, D17	CDSOD323-T03C	Bourns	CDSOD323-T03C	TVS, 3V3, SOD-323	Bottom	sod-323	8
124	L18	FB, 120R, 3A, 1206	Murata	BLM31PG121SN1L	Ferrite Bead, 120R at 100 MHz, 3A, 1206	Bottom	8-1206	1
125	L7, L15, L19, L20, L21, L22, L23, L24, L25, L26	FB, 470R, 1A, 0603	Murata	BLM18PG471SN1D	Ferrite Bead, 470R at 100 MHz, 1A, 0603	Bottom	INDCO603N	10
126	L16, L17	FB, 600R, 300mA, 0402	Murata	BLM15AG601SN1D	Ferrite Bead, 600R at 100 MHz, 300mA, 0402	Bottom	INDCO402N	2
127	L5	FB, 600R, 500mA, 0603	Murata	BLM18AG601SN1D	Ferrite Bead, 600R at 100 MHz, 500mA, 0603	Bottom	INDCO603N	1
128	F2	FUSE PTC, 2.5A, 16V, 1812	Bourns	MF-MSMF250/16X-2	PTC RESETTABLE 2.5A 16V 1812	Bottom	1812	1
129	R127, R128, R146, R175, R209, R245, R251	R, 0R, 0402	Vishay	CRCW04020000Z0ED	R, 0R, 0402	Bottom	0402 CR(1005)_IPC	7
130	R220	R, 0R, 1812	Panasonic	ERJ-12Y0R00U		Bottom	1812	1
131	R266, R273, R274	R, 0.3 OHM 5% 1/8W 0402	Vishay	RLP73N1ER30JTD	R, 0R, 0402	Bottom	0402 CR(1005)_IPC	3
132	R156, R157	R, 1K20, 1%, 0402	Vishay	CRCW04021K20FKEAHP	R, 1K20, 1%, 0402	Bottom	0402 CR(1005)_IPC	2
133	R231	R, 1K, 1%, 0402	Vishay	CRCW04021K00FKED	R, 1K, 1%, 0402	Bottom	0402 CR(1005)_IPC	1
134	R233, R234, R235, R267, R268, R269, R270	R, 1K, 0402	Vishay	CRCW04021K00FKED	R, 1K, 1%, 0402	Bottom	0402 CR(1005)_IPC	7
135	R129, R130, R218, R219, R221, R222	R, 2K, 1%, 0402	Vishay	CRCW04022K00FKED	R, 2K, 1%, 0402	Bottom	0402 CR(1005)_IPC	6
136	R137	R, 3K57, 1%, 0402	Vishay	CRCW04023K57FKED	R, 3K57, 1%, 0402	Bottom	0402 CR(1005)_IPC	1
137	R49, R155, R165, R177, R181, R184, R186, R188, R190, R192, R194, R196, R202, R205, R214, R277, R278	R, 4.7K, 1%, 0402	Vishay	CRCW040214K7FKED	R, 4.7K, 1%, 0402	Bottom	0402 CR(1005)_IPC	17

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138	R131, R132, R133, R134, R135, R139, R141, R150, R151, R154, R160, R161, R162, R164, R169, R170, R173, R176, R178, R180, R183, R199, R207, R208, R210, R211, R215, R216, R217, R240, R241, R243	R, 10K, 0402	Vishay	CRCW040210k0FKED	R, 10K, 1%, 0402	Bottom	0402 CR(1005)_IPC	32	
139	R136	R, 12.4K, 0402	Vishay	CRCW040212k4FKED	R, 12.4K, 1%, 0402	Bottom	0402 CR(1005)_IPC	1	
140	R153	R, 13K3, 1%, 0402	Vishay	CRCW040213K3FKED	R, 13K3, 1%, 0402	Bottom	0402 CR(1005)_IPC	1	
141	R223	R, 27K, 1%, 0603	Vishay	CRCW060327K0FKEA	R, 27K, 1%, 0603	Bottom	0603 CR(1608)_IPC	1	
142	R163, R166, R262, R272	R, 33R, 0402	Vishay	CRCW040233R0FKED	R, 33R, 0402	Bottom	0402 CR(1005)_IPC	4	
143	R147, R148, R197, R198	R, 39R, 1%, 0402	Vishay	CRCW040239R0FKED	R, 39R, 1%, 0402	Bottom	0402 CR(1005)_IPC	4	
144	R144	R, 49.9k, 1%, 0402	Vishay	CRCW040249K9FKED	R, 49.9K, 1%, 0402	Bottom	0402 CR(1005)_IPC	1	
145	R138	R, 54K9, 1%, 0402	Vishay	CRCW040254K9FKED	R, 54K9, 1%, 0402	Bottom	0402 CR(1005)_IPC	1	
146	R149, R172, R179, R182, R185	R, 100R, 1%, 0402	Vishay	CRCW0402100RFKED	R, 100R, 1%, 0402	Bottom	0402 CR(1005)_IPC	5	
147	R224, R225, R226, R227, R228, R229	R, 100R, 1%, 0603	Vishay	CRCW0603100RFKEA	R, 100R, 1%, 0603	Bottom	0603 CR(1608)_IPC	6	
148	R187, R189, R191, R193, R195, R200, R203, R206	R, 150R, 1%, 0402	Vishay	CRCW0402150RFKEAHP	R, 150R, 1%, 0402	Bottom	0402 CR(1005)_IPC	8	
149	R145, R201, R204	R, 240R, 1%, 0402	Vishay	CRCW0402240RFKED	R, 240R, 1%, 0402	Bottom	0402 CR(1005)_IPC	3	
150	R152	R, 324K, 1%, 0402	Vishay	CRCW0402324KFKED	R, 324K, 1%, 0402	Bottom	0402 CR(1005)_IPC	1	
151	R213	R, 620R, 1%, 0402	Vishay	CRCW0402620RFKED	R, 620R, 1%, 0402	Bottom	0402 CR(1005)_IPC	1	
152	R168, R171	R, 649K, 1%, 0402	Vishay	CRCW0402649KFKED	R, 649K, 1%, 0402	Bottom	0402 CR(1005)_IPC	2	
153	M1, M2, M3, M4	Rubber Feet	Hammond Manufacturing	1421T5CL		Bottom	RubberFeet-12.7	4	Rubber Feet
154	Q1, Q2, Q3, Q4, Q6, Q7	TBC847B,LM	Toshiba	TBC847B,LM	BJT NPN 0.15A 50V	Bottom	SOT23_N	6	

Approved

Notes

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