

Part Number	Q.ty	Ref.	Description	Package		
	91	C1, C2, C4, C5, C10, C11, C13, C14, C16, C20, C21, C23, C24, C35-C50, C53-C55, C59, C60, C70, C72, C86, C87, C90, C93-C95, C98, C101-C104, C107-C109, C111-C114, C117, C120-C122, C125, C126, C129, C130, C134, C135, C137, C140, C143, C146, C174, C175, C177, C180, C193, C204, C205, C214-C216, C218-C226, C241, C242, C500, C506	CAP CER 0.1UF 10V X7R 0603	C0603		
	1	C3	CAP CER 100UF 10V X5R 1206	C1206		
	1	C6	CAP ALUM POLY HYB 22UF 63V SMD	6.60mm x 6.60mm		
	1	C7	CAP ALUM POLY HYB 10UF 63V SMD	6.60mm x 6.60mm		
	9	C8, C61, C71, C138, C141, C144, C147, C501, C507	CAP CER 0.01uF 50V X7R 0805	C0805		
	1	C9	CAP CER 1UF 100V X7S 0805	C0805		
	14	C12, C15, C19, C22, C97, C100, C115, C118, C123, C127, C131, C132, C203, C217	CAP CER 10UF 10V X7R 0805	C0805		
	1	C17	CAP CER 10UF 10V X5R 0805	C0805		
	1	C18	CAP CER 22UF 16V X7R 1210	C1210		
	1	C25	CAP CER 1000PF 2KV X7R 1808	C1808		
	2	C51, C52	22µF ±20%, 16V aluminum electrolytic capacitor (C case)	C case		
	21	C56-C58, C68, C81, C82, C88, C89, C91, C96, C99, C116, C119, C124, C128, C502, C504, C505, C508, C510, C511	CAP CER 1UF 16V X7R 0603	C0603		
	3	C62, C67, C238	CAP CER 0.1UF 50V X7R 0603	C0603		
	3	C63, C65, C110	CAP CER 0.22UF 25V X7R 1206	C1206		
	1	C66	Aluminium Electrolytic Capacitors - SMD 50volts 1uF Audio SMT	4.0mm x 5.4mm		
	3	C73, C76, C77	CAP CER 2.2UF 10V X5R 0805	C0805		
	2	C74, C92	CAP CER 4.7UF 16V X5R 0603	C0603		
	4	C139, C142, C145, C148	CAP CER 0.001UF 10V X7R 0603	C0603		
	2	C171, C176	CAP CER 7PF 50V C0G/NPO 0603	C0603		
	4	C227, C230-C232	CAP CER 4.7UF 50V X5R 1206	C1206		
	2	C228, C229	CAP TANT 4.7UF 50V 10% 2917	2917 (7343 Metric)		
	4	C233-C236	CAP TANT 47UF 20V 10% 2917	2917 (7343 Metric)		
	1	C237	CAP CER 10UF 25V X5R 0805	C0805		
	1	C239	CAP CER 4.7UF 10V X5R 0603	C0603		
	1	C240	CAP CER 6800PF 50V X7R 0603	C0603		
	2	C503, C509	CAP CER 100pF 5% 50V C0G/NPO 0603	C0603		
	1	D2	DIODE GEN PURP 1KV 3A SMC	SMC		
	1	D3	Schottky Barrier Rectifier	D2PAK		
	1	D4	TVS DIODE 33VR 53.3VC SMB	DO214AA(SMB)		
	1	D5	DIODE SCHOTTKY 100V 20A D2PAK	D2PAK		
	2	D6, D7	TVS DIODE 6VR 10.3VC SMC	SMC		
	1	D9	Rectifiers 85V 215mA	SOT23-3		

Part Number	Q.ty	Ref.	Description	Package		
	9	D10, D12, D13, D16, D17, D18, D19, D21, D500	ESD Suppressors 0603 24VDC .06pF	SOT23-3		
	1	D11	DIODE GEN PURP 100V 300MA SOD123	SOD-123		
	1	D17	DIODE SCHOTTKY 60V 3A SMC	SMC		
	1	DL1	LED GREEN 0603 SMD	LED0603		
	2	F1, F2	Resettable Fuses - PPTC 16V 1.10A 1210 PTC	FUSE1210		
	1	J2	5.08 mm Horizontal PCB Header 2 Pole	Pitch 5.08 mm x 2		
	1	J5	CONN HEADER 12POS .100 R/A TIN	2.54mm x 12 pole		
	1	J6	CONN HEADER 2POS .100 VERT TIN	Pitch 2.54mm x 2		
	1	J7	CONN HEADER 7POS .100 VERT TIN	2.54mm x 7 pole		
	1	J8	CONN HEADER 4POS .100 VERT TIN	Pitch 2.54 mm x 4 Pin		
	1	J9	CONN HEADER 3POS .100 R/A TIN	2.54mm x 3 pole		
	1	J10	CONN HEADER 3POS .100 VERT TIN	2.54mm x 3 pole		
	1	J20	CONN RECEPT USB2.0 TYPE A VERT. PTH	PTH Vertical		
	1	J22	CONN RCPT STD MICRO USB TYPE AB VERT. PTH	PTH Vertical		
	1	L1	FIXED IND 10UH 5.6A 21 MOHM SMD	0.512" L x 0.512" W (13.00mm x 13.00mm)		
	1	L2	Ferrite 470nH, 15 mOhm	3.65mm X 3mm		
	1	L27	INDUCT ARRAY 2 COIL 4.841UH SMD			
	7	L5, L9, L10, L17, L23, L26, L28	FERRITE BEAD 120 OHM 0603 1LN	L0603		
	2	L6, L7	FIXED IND 22uH, 1.9A	10.1mm x 10.1mm x h 4.5mm (SLF10145T-220M1R9-PF)		
	1	L8	Fixed Inductors 15uH 10% 4.5x3.2x3.2mm	L1812		
	2	L11, L12	FERRITE BEAD 60 OHM 0805	L0805		
	2	L18, L24	Common Mode Filters 90Ohm 100MHz 550mA	TBD (L0603-4)		
	2	L19, L25	FERRITE BEAD 220 OHM 0603 1LN	L0603		
	1	P1	CONN D-SUB PLUG/RCPT 9POS R/A Male-Up, Female-Dw	2xDB9		
	1	PCB1	PCB 1,6mm 6 layers			
	2	Q1, Q6	MOSFET SOT23-3 N-CH 50V	SOT23-3		
	1	Q12	MOSFET N-CH 60V 11A PPAK SO-8	PPAK SO-8		
	1	R1	RES SMD 91K OHM 1% 1/10W 0603	R0603		
	36	R2, R7, R10, R14, R15, R26, R29, R34, R35, R42-R44, R51, R52, R58, R59, R79, R90-R92, R106, R128, R129, R162-R167, R210-R212, R216, R237, R504, R510	RES SMD 10K OHM 1% 1/10W 0603	R0603		
	5	R3, R502, R503, R508, R509	RES SMD 1M OHM 1% 1/10W 0603	R0603		
	14	R4, R62, R63, R74, R75, R94, R95, R149, R150, R178, R179, R213, R214, R218	RES SMD 4.7K OHM 1% 1/10W 0603	R0603		
	4	R5, R67, R72, R248	RES SMD 0.0OHM JUMPER 1210	R1210		
	1	R6	RES SMD 1.2K OHM 1% 1/10W 0603	R0603		
	10	R8, R153, R181-R188	RES SMD 1K OHM 1% 1/10W 0603	R0603		
	13	R11, R56, R57, R60, R61, R170-R177	RES SMD 100K OHM 1% 1/10W 0603	R0603		
	1	R16	RES SMD 100K OHM 5% 1/2W 1210	R1210		
	28	R36, R64, R93, R97, R105, R108, R111, R114, R115, R117, R119, R120, R123, R124, R126, R127, R131, R147, R148, R151, R169, R191, R193, R225, R227, R228, R240, R243	RES SMD 0.0OHM JUMPER 1/10W 0603	R0603		

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	1	R38	RES SMD 470 OHM 1% 1/10W 0603	R0603		
	8	R48-R50, R53-R55, R116, R121	RES SMD 330 OHM 1% 1/10W 0603	R0603		
	1	R69	RES SMD 20 OHM 5% 1/2W 1210	R1210		
	2	R70, R71	RES SMD 20 KOHM 1% 1/10W 0603	R0603		
	24	R73, R83-R89, R96, R98-R104, R168, R180, R189, R190, R192, R215, R229, R230	RES SMD 22 OHM 1% 1/10W 0603	R0603		
	1	R107	RES SMD 4.99 K OHM 1% 1/10W 0603	R0603		
	2	R231, R234	RES SMD 105 KOHM 1% 1/10W 0603	R0603		
	1	R232	RES SMD 46.4 KOHM 1% 1/10W 0603	R0603		
	1	R233	RES 0.01 OHM 1% 1W 2512	R2512		
	1	R235	RES SMD 41.2 KOHM 1% 1/10W 0603	R0603		
	1	R236	RES SMD 15.8 KOHM 1% 1/10W 0603	R0603		
	2	R500, R506	RES SMD 3.3K OHM 1% 1/10W 0603	R0603		
	2	R501, R507	RES SMD 2.2 KOHM 1% 1/10W 0603	R0603		
	2	R505, R511	RES SMD 330K OHM 1% 1/10W 0603	R0603		
	1	SW1	SWITCH TACTILE RA SPST-NO 0.05A 12V	PTH		
	2	SW2-SW3	SWITCH TACTILE VERTICAL SPST-NO 0.05A 12V	TACTILE SWITCH SMD 6.0x6.0x8.35 mm		
	1	SW4	SWITCH SLIDE DIP SPST 24V	PTH		
	1	U1	LMV331 General Purpose Low Voltage Comparator	SOT23-5 (DBV)		
	1	U2	42V-5A Simple Switcher Step Down Voltage Rgulator	TO263-7		
	1	U3	NXP Cortex-A9 i.MX6 CPU MODULE/SoM/Core-board (FET- i.MX6DL)	i.MX6 DL		
	1	U4	Switching Regulators 3A SD Cnvr w/ DCS-Control	VSON-HR (RTL-7) (RLT0007A)		
	6	U8-U13	3.3V/5V Logic Gate Output Optocoupler with High Noise Immunity	SO-5		
	4	U14-U17	Single Schmitt-Trinnger Inverter Gate	SC70-5		
	1	U18	10W Mono Class D Speaker Amplifier	24 TQFN-EP		
	1	U19	Ultra Low-Power Codec for Portable Audio Applications	QFN-32		
	3	U20, U24, U27	Single Power Supply Single Buffer GATE CMOS Logic Level Shifter	SOT23-5		
	1	U21	1.8V 300 mA, Ultra-Low Quiescent Current, Ultra-LowNoise, LDO Voltage Regulator	TSOP-5		
	1	U22	1µA Supply Current, 1.8V to 4.25V-Powered RS-232 Transceiver with AutoShutdown	SSOP-20		
	1	U23	3V To 5V Single Channel RS232 Line DRV/REC with 15Kv IEC ISD Protection	SSOP-DB		
	1	U25	Integrated 10/100/1000 Mbps Energy Efficient Ethernet Transceiver	QFN-56		
	1	U26	OSC XO 25.000MHZ CMOS SMD 50 PPM	2.5mm x 2.0mm		
	1	U28	2-Bit Bidirectional Translator For SDA and SCL	SM8 (DCT)		
	1	U29	CONN MAGJACK 1PORT 1000 BASE-T	MAGJACK		
	1	U30	2X5 SFF Optical Transceiver,1310nm,1.25Gb/s, 20km, LC Connector, -40°C ~ +85°C	OSF1250-3120NTR		
	1	U33	Battery-Backed I2C Real-Time Clock/Calendar with SRAM, EEPROM and Protected EEPROM	SOIC-8		
	1	U34	TMP10x Temperature Sensor With I2C BUS	SOT23-6 (DBV)		
	1	U37	BATT LITH 3V 17MAH COIN 12.5MM	PTH Vertical		
	1	U41	CONN MINI SD CARD PUSH-PUSH R/A	Ref. to datasheet		
	3	U44, U45, U47	Dual-Channel Power Distribution Switch	SOIC-8		
	3	U48-U50	SN74AVCH2T45 2-bit non-inverting bus transceiver	DSBGA-8 (YZP)		
	1	U51	IC REG CTRLR MULT TOPOLOGY 10DFN	10-Lead (3mm x 3mm) DFN		
	2	U500, U501	IC PREAMP MICROPHONE SOT23-5	SOT23-5		

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	1	Y1	Crystals 32.768KHz 7pF -40C +85C 20ppm	3.2mm x 1.5mm x 0.9mm		