



# Service Manual

EON ONE Compact  
All-in-One Rechargeable Personal PA





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# Safety Precautions

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The EON ONE Compact system covered by this manual is not intended for use in high moisture environments. Moisture can damage the speaker cone and surround and cause corrosion of electrical contacts and metal parts. Avoid exposing the speakers to direct moisture. Keep speakers out of extended or intense direct sunlight. The driver suspension will prematurely dry out and finished surfaces may be degraded by long-term exposure to intense ultra-violet (UV) light. The EON ONE Compact system can generate considerable energy. When placed on a slippery surface such as polished wood or linoleum, the speaker may move due to its acoustical energy output. Precautions should be taken to assure that the speaker does not fall off a stage or table on which it is placed.

## HEARING DAMAGE, PROLONGED EXPOSURE TO EXCESSIVE SPL

The EON ONE Compact system is capable of generating sound pressure levels (SPL) sufficient to cause permanent hearing damage to performers, production crew, and audience members. Caution should be taken to avoid prolonged exposure to SPL in excess of 85 dB.

## CARE & CLEANING

EON ONE Compact systems may be cleaned with a dry cloth. Do not allow moisture into any of the openings in the system. Ensure that the system is unplugged from the AC outlet before cleaning.

THIS APPARATUS CONTAINS POTENTIALLY LETHAL VOLTAGES. TO PREVENT ELECTRIC SHOCK OR HAZARD, DO NOT REMOVE CHASSIS, MIXER MODULE, OR AC INPUT COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

## WEEE Notice



The Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), which entered into force as European law on 14/02/2014, resulted in a major change in the treatment of electrical equipment at end-of-life. The purpose of this Directive is, as a first priority, the prevention of WEEE, and in addition, to promote the reuse, recycling and other forms of recovery of such wastes so as to reduce disposal. The WEEE logo on the product or on its box indicating collection for electrical and electronic equipment consists of the crossed-out wheeled bin, as shown.

This product must not be disposed of or dumped with your other household waste. You are liable to dispose of all your electronic or electrical waste equipment by relocating over to the specified collection point for recycling of such hazardous waste. Isolated collection and proper recovery of your electronic and electrical waste equipment at the time of disposal will allow us to help conserve natural resources. Moreover, proper recycling of the electronic and electrical waste equipment will ensure safety of human health and environment. For more information about electronics and electrical waste equipment disposal, recovery, and collection points, please contact your local city center, household waste disposal service, shop from where you purchased the equipment, or manufacturer of the equipment.

## RoHS Compliance

This product is in compliance with Directive 2011/65/EU and (EU) 2015/863 of the European Parliament and of the Council of 31/03/2015 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

## REACH

REACH (Regulation No 1907/2006) addresses the production and use of chemical substances and their potential impacts on human health and the environment. Article 33 (1) of REACH Regulation requires suppliers to inform the recipients if an article contains more than 0.1% (per weight per article) of any substance(s) on the Substances of Very High Concern (SVHC) Candidate List ('REACH candidate list').

This product contains the substance "lead" (CAS-No. 7439-92-1) in a concentration of more than 0.1% per weight.

At the time of release of this product, except for the lead substance, no other substances of REACH candidate list are contained in a concentration of more than 0.1% per weight in this product.

**Note:** on June 27, 2018, lead was added to the REACH candidate list. The inclusion of lead in the REACH candidate list does not mean that lead-containing materials pose an immediate risk or results in a restriction of permissibility of its use.

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12.  USE ONLY with a cart, stand, tripod, bracket, or table specified by the manufacture, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to a qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
18. DO NOT overload wall outlets or extension cords beyond their rated capacity as this can cause electric shock or fire.
19. For adequate ventilation, do not install this equipment in a confident or enclosed space, such as a book case or similar unit. Product ventilation should not be impeded by covering the ventilation openings with items such as newspaper, tablecloths, curtains, etc.



The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

**WARNING:** No naked flame sources – such as lighted candles – should be placed on the product.

**WARNING:** Equipment shall be connected to a MAINS socket outlet with a protective earthing connection.

## Section 2: Precautions

**WARNING:** This product is intended to be operated ONLY from the voltages listed on the back panel. Operation from voltages other than those indicated may cause irreversible damage to the product and void the products warranty. The use of AC Plug Adapters is cautioned because it can allow the product to be plugged into voltages in which the product was not designed to operate. If you are unsure of the correct operational voltage, please contact your local distributor and/or retailer. If the product is equipped with a detachable power cord, use only the type provided, or specified, by the manufacturer or your local distributor.

**OPERATING TEMPERATURE RANGE:** -20°C – 40°C (-4°F – 104°F)



**WARNING:** Do Not Open! Risk of Electric Shock. Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel.

Place the equipment near a main power supply outlet to make sure that you can easily access the power breaker switch.

**WARNING:** Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. Please dispose of any used batteries properly, following any local regulations. Do not incinerate.

**WARNING:** DO NOT EXPOSE BATTERIES OR BATTERY PACK TO EXCESSIVE HEAT, SUCH AS THAT FROM OPEN FLAMES, DIRECT SUNSHINE, ETC.

**CAUTION:** DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED, REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

DO NOT UNDER ANY CIRCUMSTANCES OPERATE THE UNIT WITH THE WRONG VOLTAGE SELECTED. DOING SO MAY RESULT IN SERIOUS DAMAGE TO YOUR PA SYSTEM WHICH WILL NOT BE COVERED BY WARRANTY.

### FCC AND CANADA EMC COMPLIANCE INFORMATION:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CAUTION:** Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** This product is for non-residential use only.

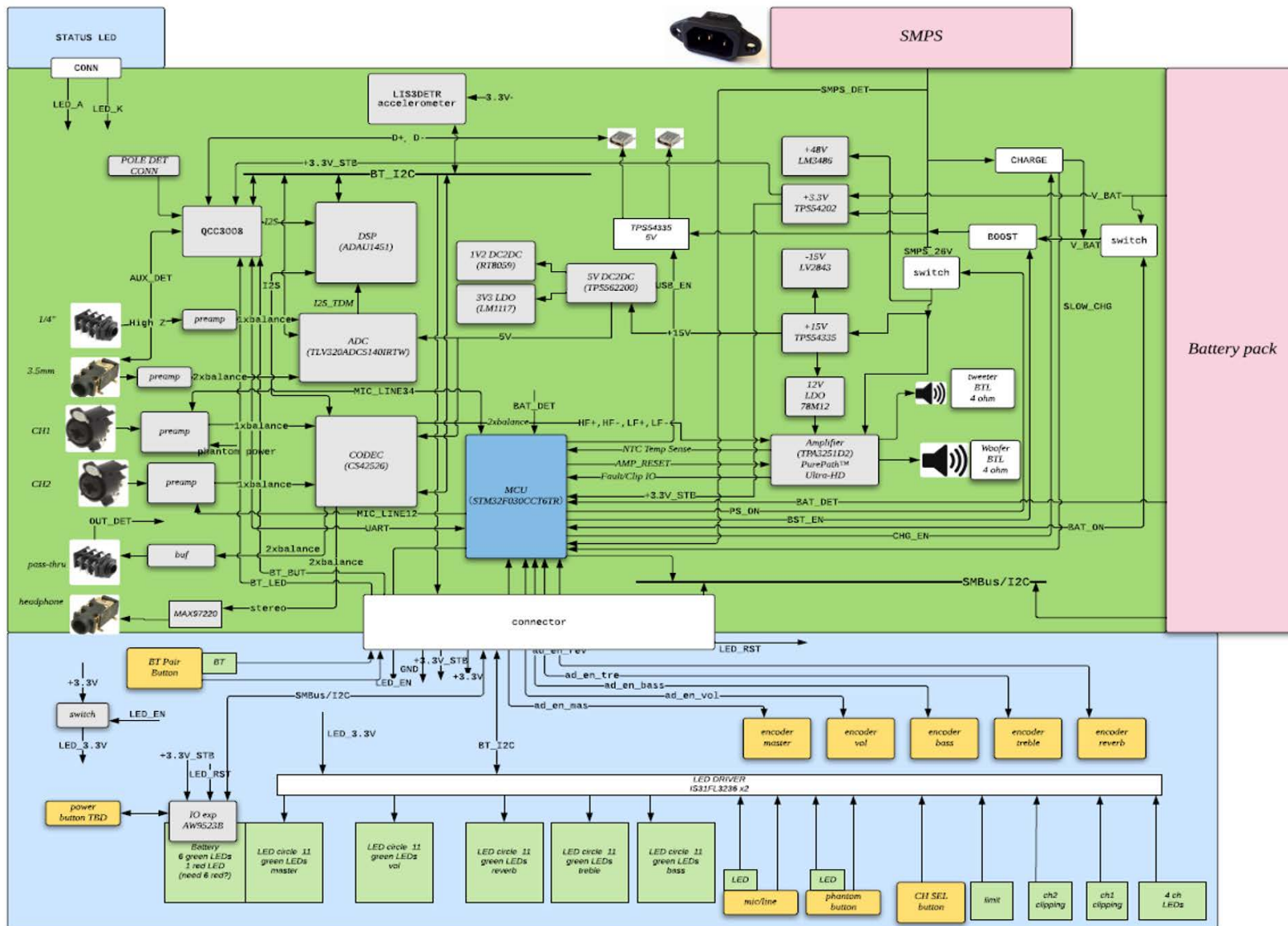
**WARNING:** This equipment is compliant with Class B of CISPR 32. In a residential environment this equipment may cause radio interference.

CAN ICES-3 (B)/NMB-3(B)

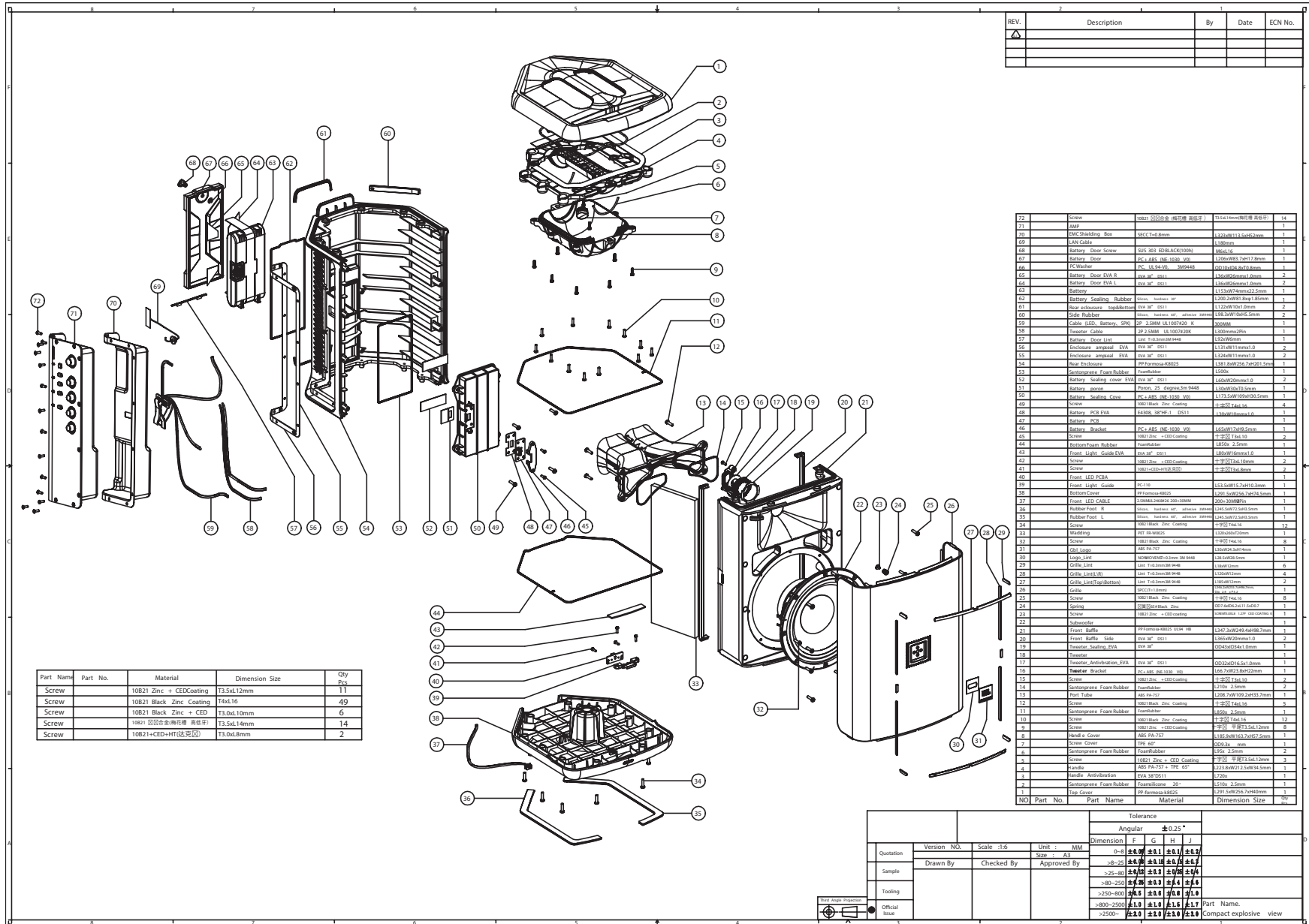


Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.

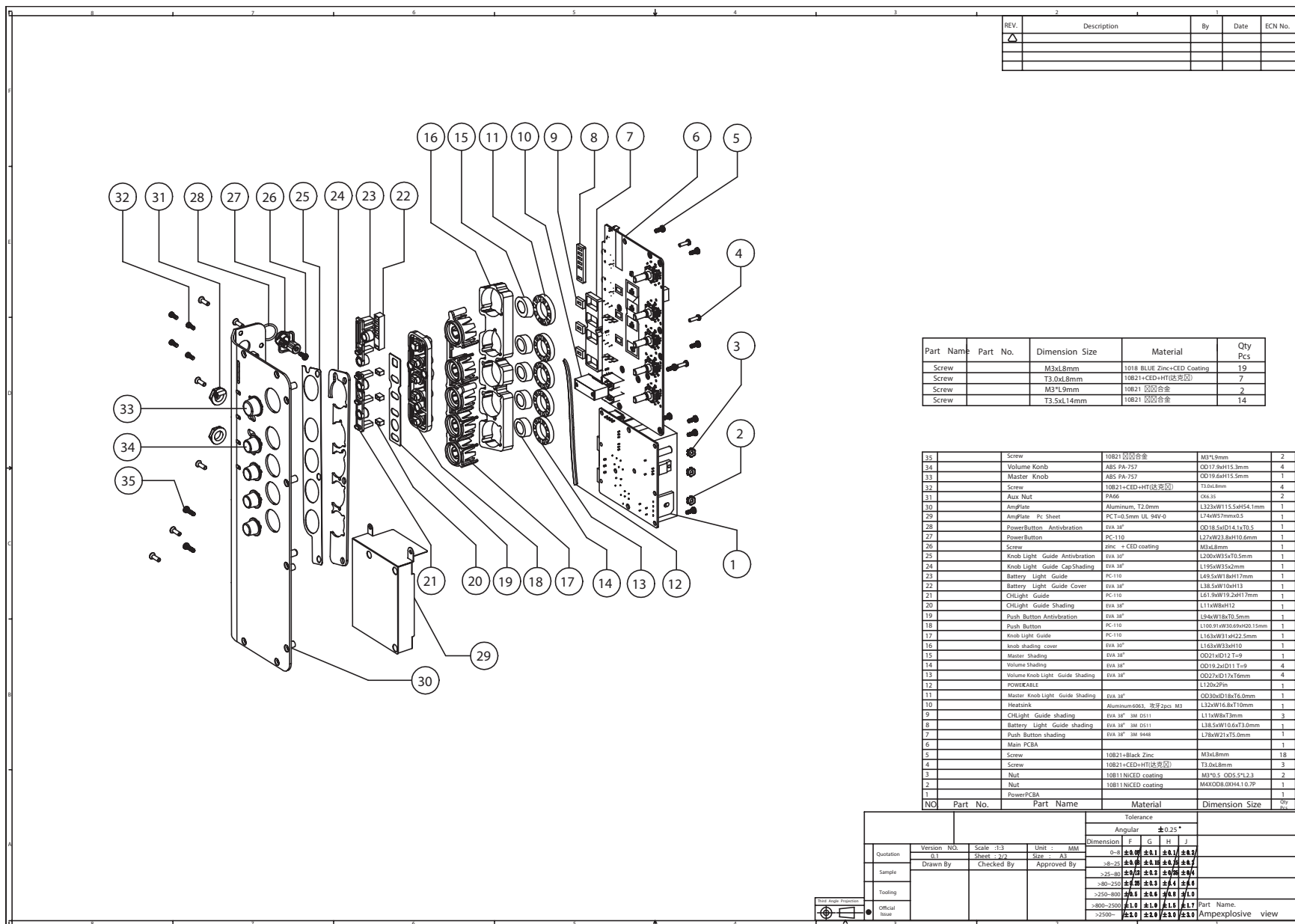
# Signal Path Block Diagram



# Exploded View Diagram - Mechanical Assembly



# Exploded View Diagram - Amplifier Assembly



REV.	Description	By	Date	ECN No.
△				

Part Name	Part No.	Dimension Size	Material	Qty Pcs
Screw		M3xL8mm	1018 BLUE Zinc+CED Coating	19
Screw		T3.0xL8mm	10821+CED+HT(达克罗)	7
Screw		M3*L9mm	10821 达克罗	2
Screw		T3.5xL14mm	10821 达克罗	14

35	Screw	10821 达克罗	M3*9mm	2
34	Volume Knob	ABS PA-757	OD17.9xH15.3mm	4
33	Master Knob	ABS PA-757	OD19.6xH15.5mm	1
32	Screw	10821+CED+HT(达克罗)	T3.0x8mm	4
31	Aux Nut	PA66	φ6x3	2
30	Amplate	Aluminum, T2.0mm	L323xW115.5xH54.1mm	1
29	Amplate PC Sheet	PCT=0.5mm UL 94V-0	L740xW57mmx0.5	1
28	PowerButton Antivibration	EVA 3P	OD18.5xID14.1xT0.5	1
27	PowerButton	PC-110	L27xW23.8xH10.6mm	1
26	Screw	zinc + CED coating	M3x8mm	1
25	Knob Light Guide Antivibration	EVA 3P	L206xW33xT0.5mm	1
24	Knob Light Guide CapShading	EVA 3P	L195xW33x2mm	1
23	Battery Light Guide	PC-110	L49.5xW18xH17mm	1
22	Battery Light Guide Cover	EVA 3P	L38.5xW10xH13	1
21	CHLight Guide	PC-110	L61.9xW19.2xH17mm	1
20	CHLight Guide Shading	EVA 3P	L11xW8xH12	1
19	Push Button Antivibration	EVA 3P	L19xW18xT0.5mm	1
18	Push Button	PC-110	φ100xH16.9xφ20.15mm	1
17	Knob Light Guide	PC-110	L163xW31xH22.5mm	1
16	Knob shading cover	EVA 3P	L163xW33xH10	1
15	Master Shading	EVA 3P	OD21xID12 T=9	1
14	Volume Shading	EVA 3P	OD19.2xID11 T=9	4
13	Volume Knob Light Guide Shading	EVA 3P	OD22xID17xT6mm	4
12	POWERABLE		L120x22Pm	1
11	Master Knob Light Guide Shading	EVA 3P	OD30xID18xT6.0mm	1
10	Heatsink	Aluminum-6063, 穿牙2pcs M3	L32xW16.8xT10mm	1
9	CHLight Guide shading	EVA 3P JM 0511	L11xW8xT3mm	3
8	Battery Light Guide shading	EVA 3P JM 0511	L38.5xW10.6xT3.0mm	1
7	Push Button shading	EVA 3P JM 9448	L78xW21xT5.0mm	1
6	Main PCB A			1
5	Screw	10821+Black Zinc	M3x8mm	18
4	Screw	10821+CED+HT(达克罗)	T3.0xL8mm	3
3	Nut	10811 NCEED coating	M3*0.5 ODS.5*L1.3	2
2	Nut	10811 NCEED coating	MAXOD8.0xH4.1xT9P	1
1	PowerPCBA			1

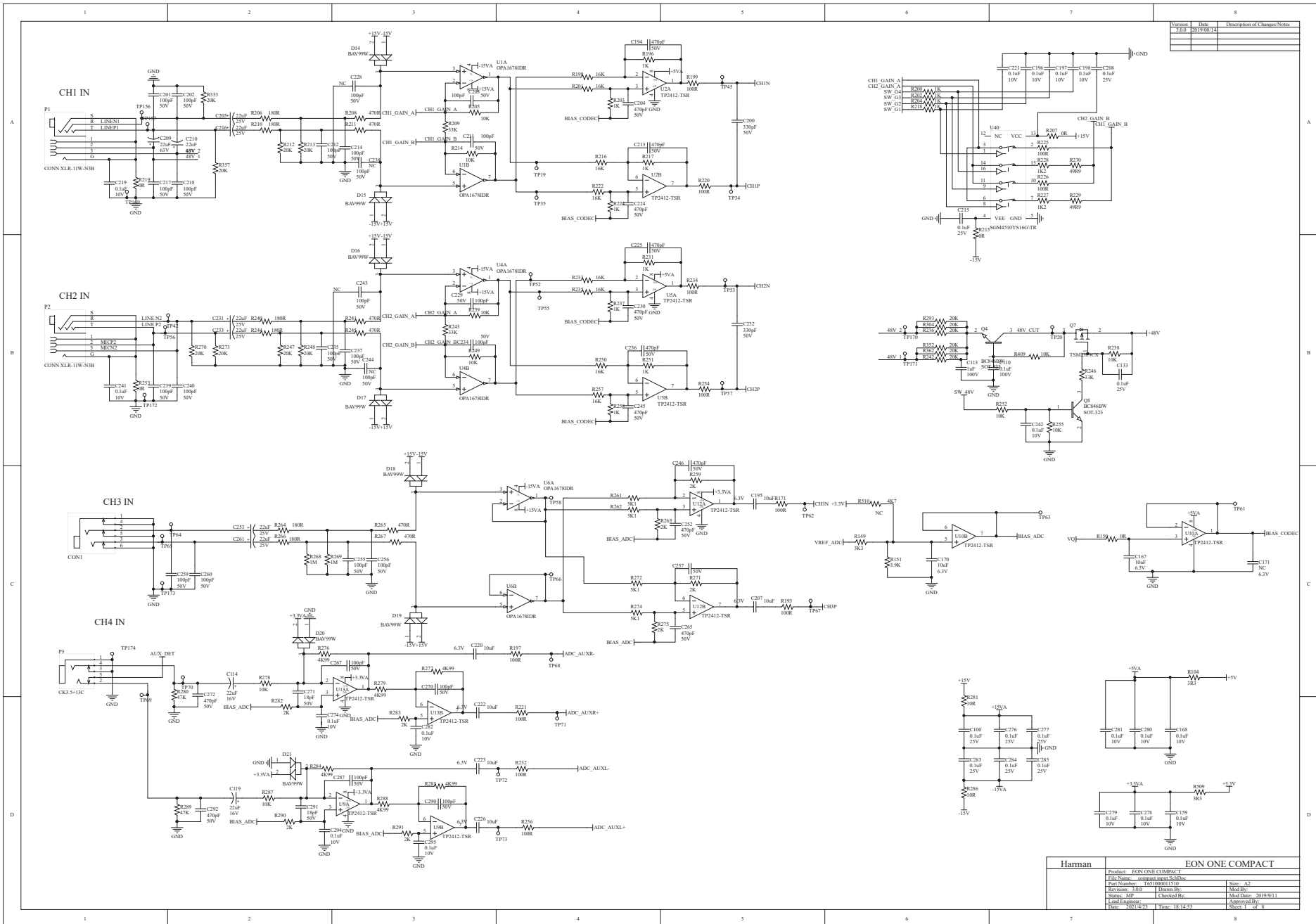
Part No.	Part Name	Material	Dimension Size	Qty Pcs
NC				

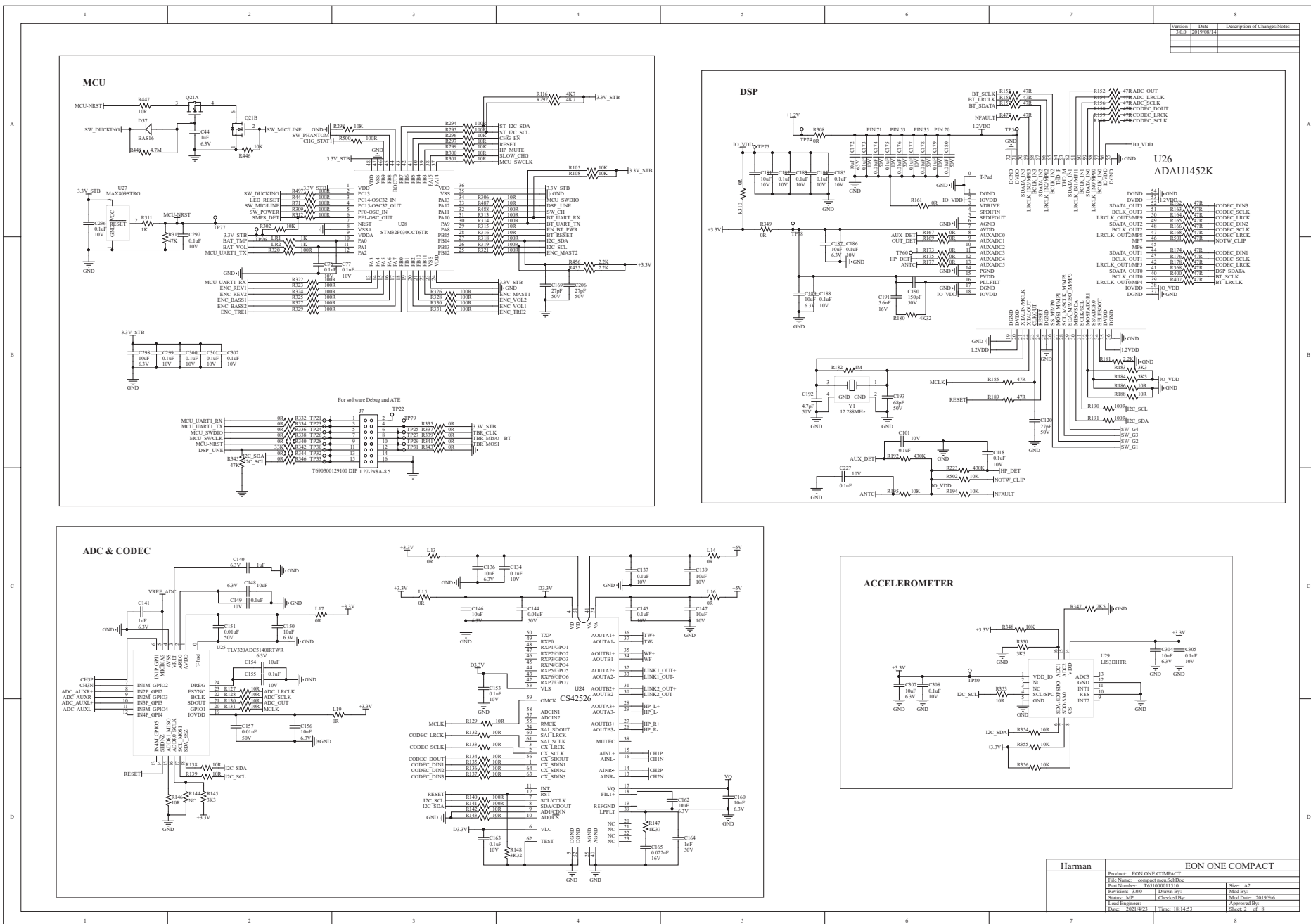
  

		Tolerance									
		Angular									
		±0.25°									
		Dimension	F	G	H	J					
Quotation	Version No.	Scale: 1:3	Unit: MM	0-3	3-8	8-25	25-80	80-250	250-800	800-2500	2500-
Drawn By	Checked By	Sheet: 1/2	Size: A3	±0.05	±0.07	±0.1	±0.15	±0.2	±0.3	±0.5	
Sample	Approved By			±0.1	±0.15	±0.2	±0.3	±0.4	±0.6	±1.0	
Tooling				±0.1	±0.15	±0.2	±0.3	±0.4	±0.6	±1.0	
Official Seal				±0.1	±0.15	±0.2	±0.3	±0.4	±0.6	±1.0	
				±0.1	±0.15	±0.2	±0.3	±0.4	±0.6	±1.0	

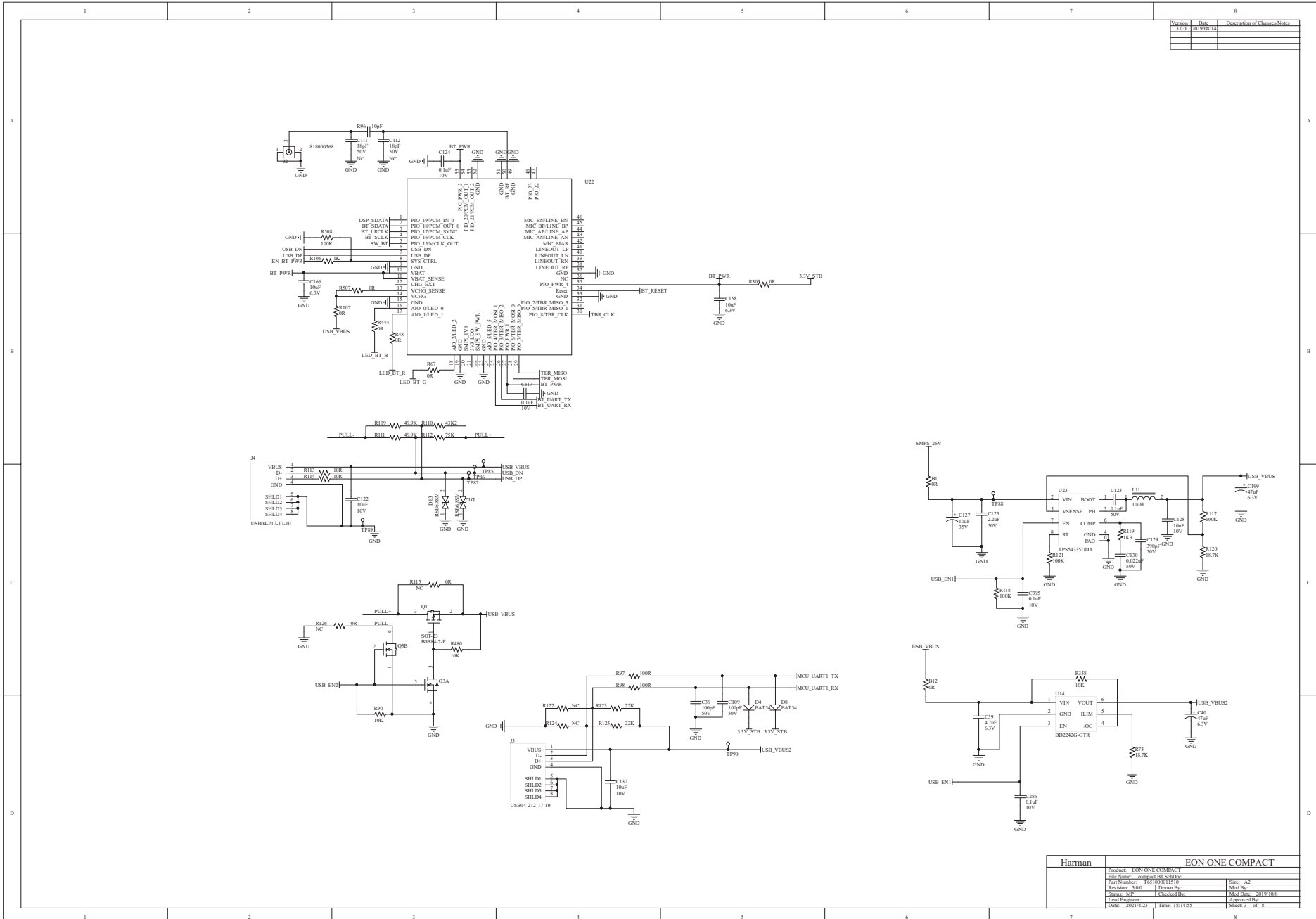
Part Name: Amp explosive view



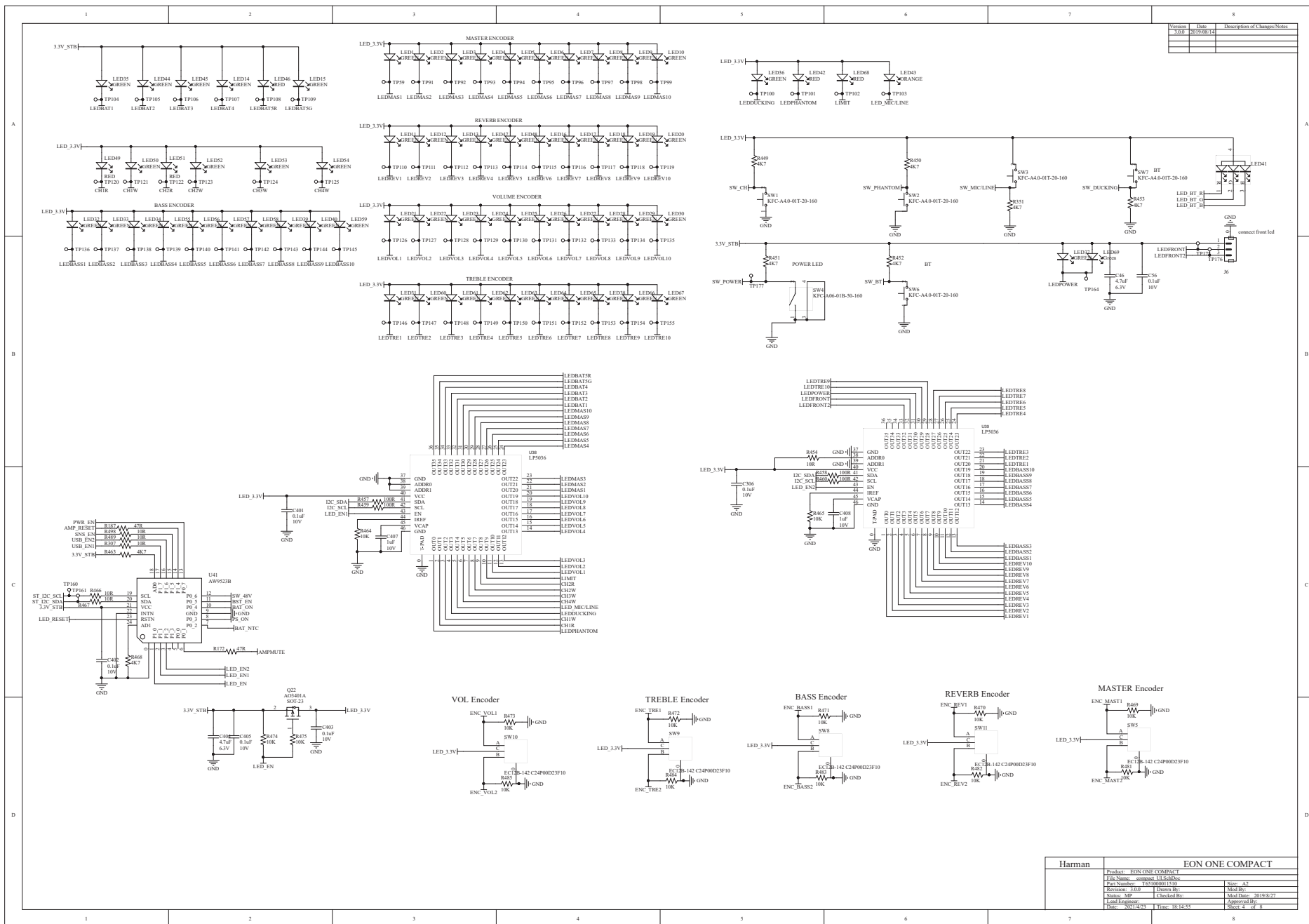




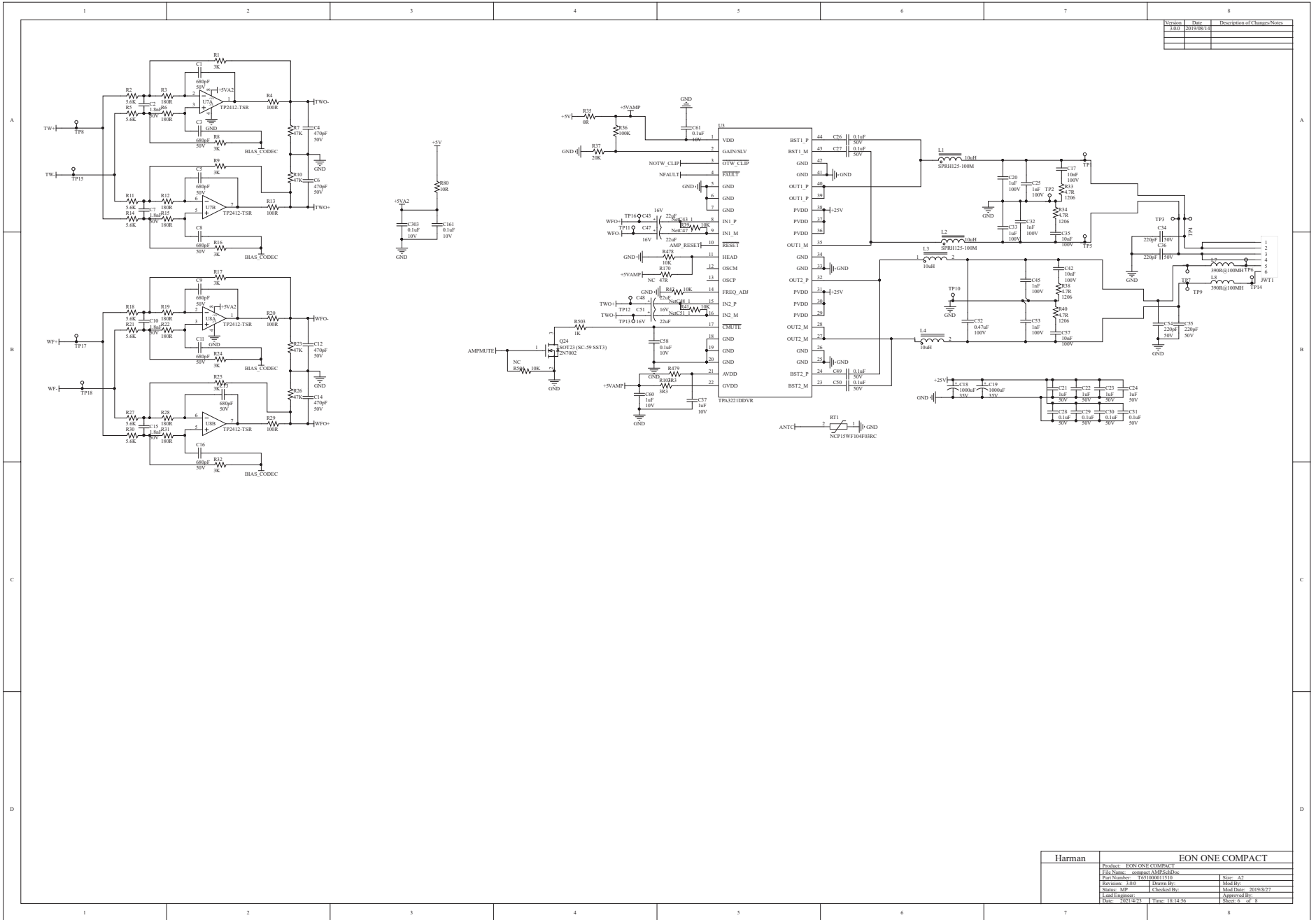
Harman	EON ONE COMPACT
Product: EON ONE COMPACT	EON ONE COMPACT
File Name: compact_mcaSchDps	
Part Number: 8419901110	Rev: 03
Revision: 3.1.0	Drawn By: MCB
Company: AMP	Mod Date: 2019/06
Created By: REX	Checked By:
Lead Designer: MCB	Approved By:
Date: 2021/2/23	Time: 18:25:53
	Sheet 2 of 8

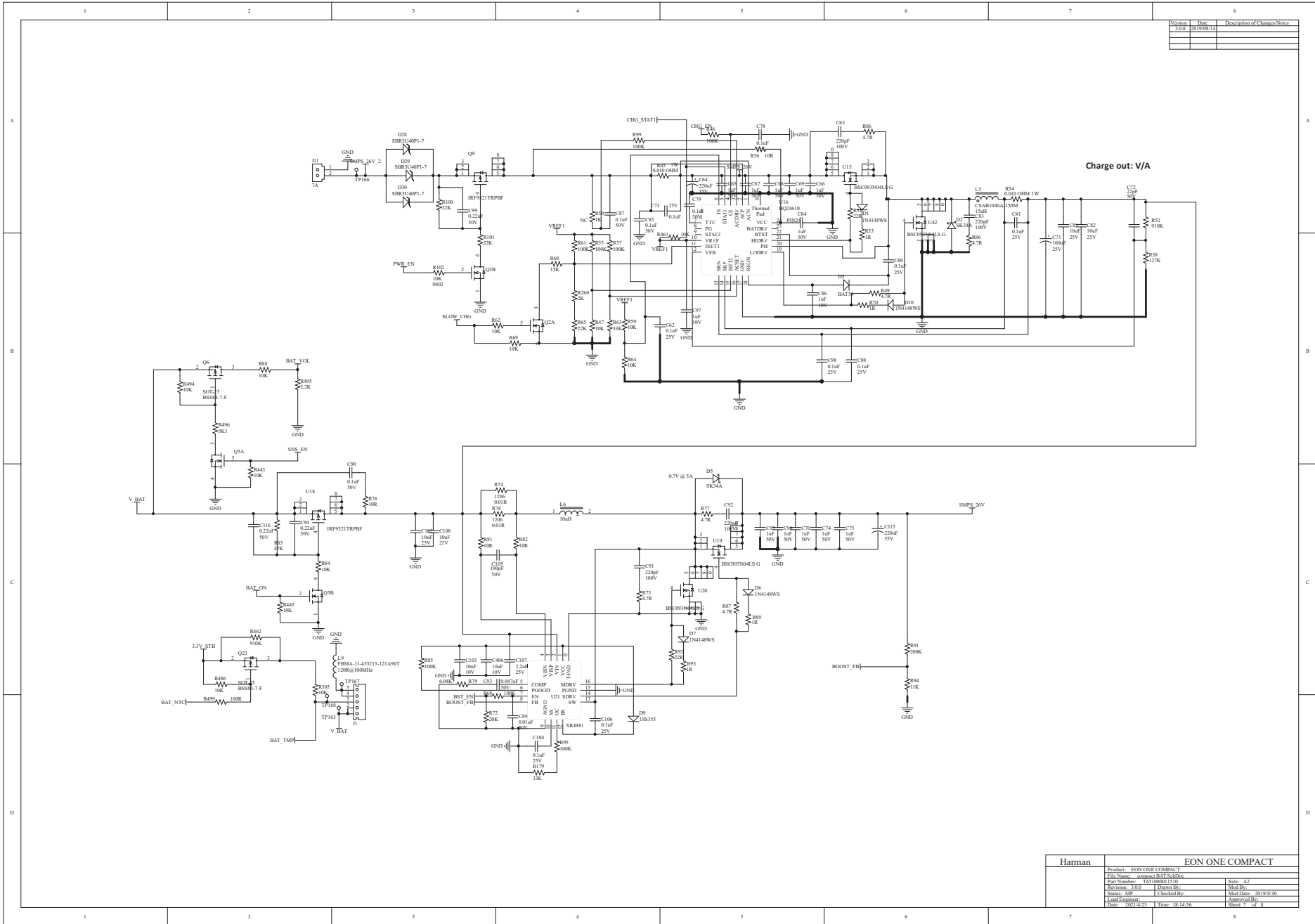


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File Number:	MD190101110	Rev: 02
Revision:	3.0.0	Drawn By: MGB/BY
Company:	AMP	Mod Date: 2019/08/08
Lead Engineer:		Checked By: [Signature]
Date:	2021/4/23	Time: 18:14:55
		Sheet 1 of 8



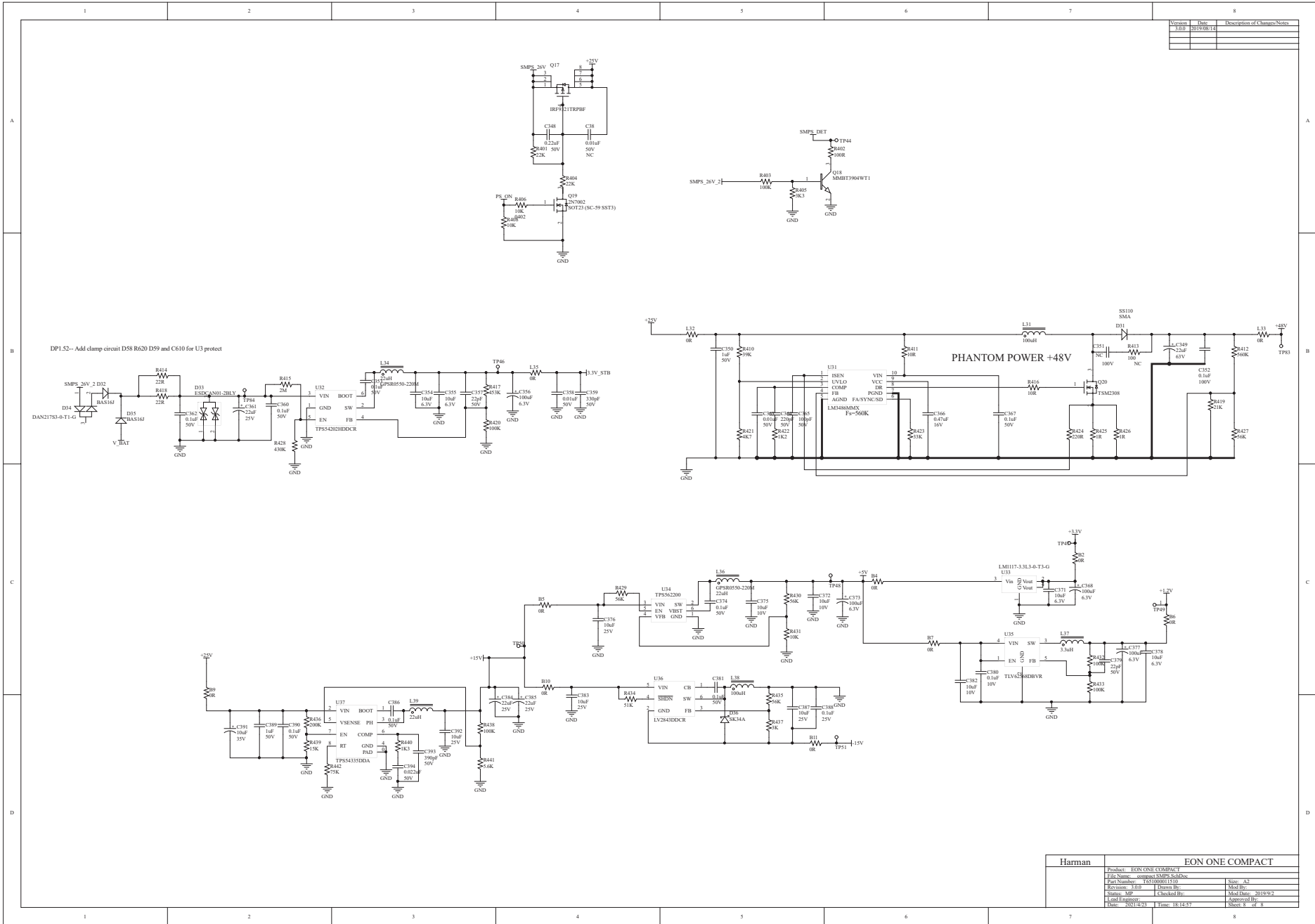




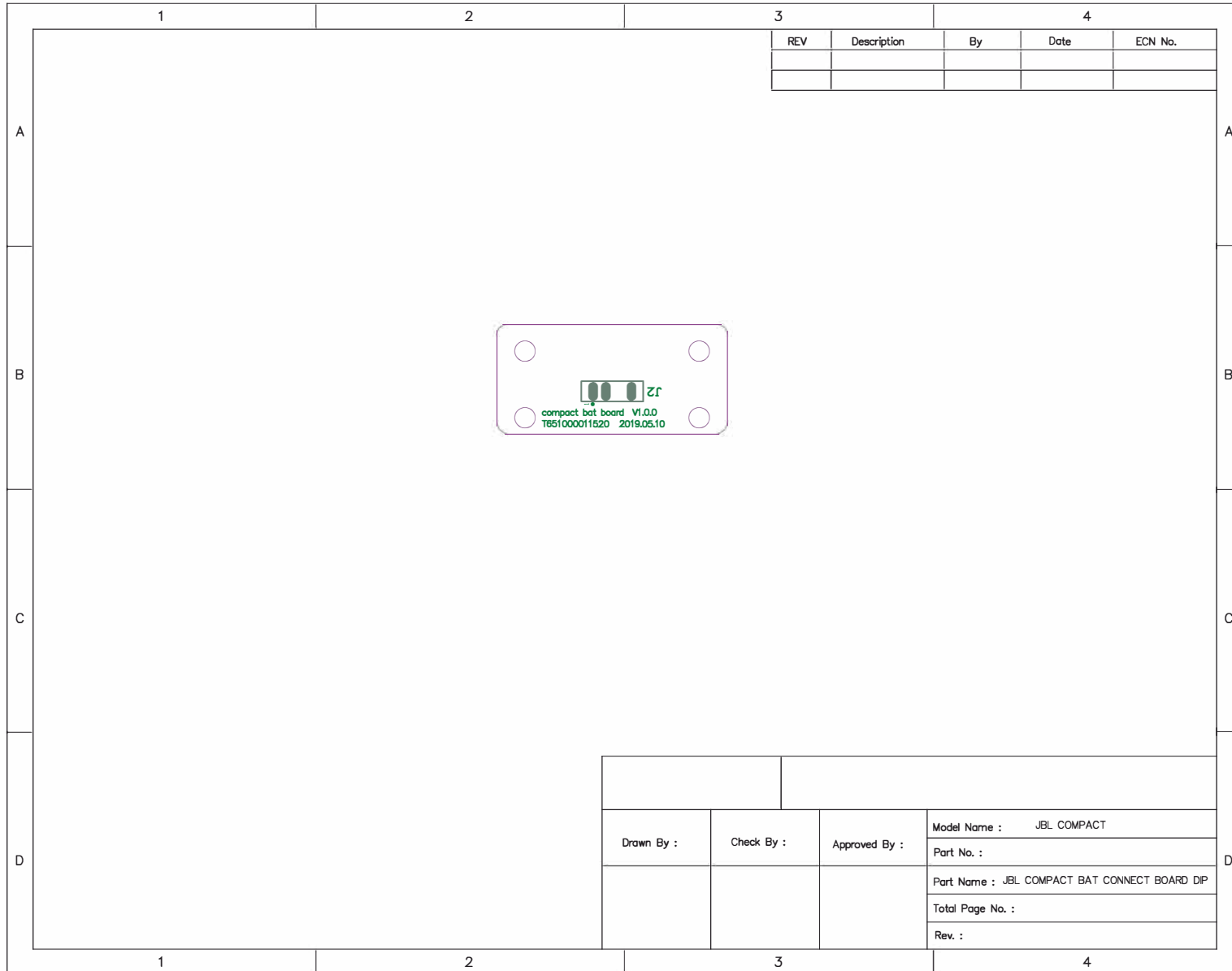


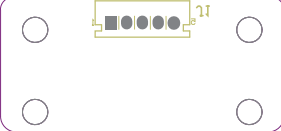
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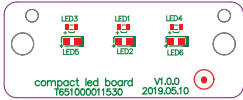
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	Revision: 3.0.0	Drawn By: MGB/B
	Checked By: MGB/B	Issue Date: 2019/8/9
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	Issue Date: 2019/8/9	Drawn By: MGB/B
	Time: 18:14:56	Sheet 7 of 8

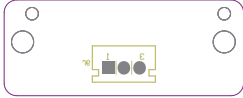


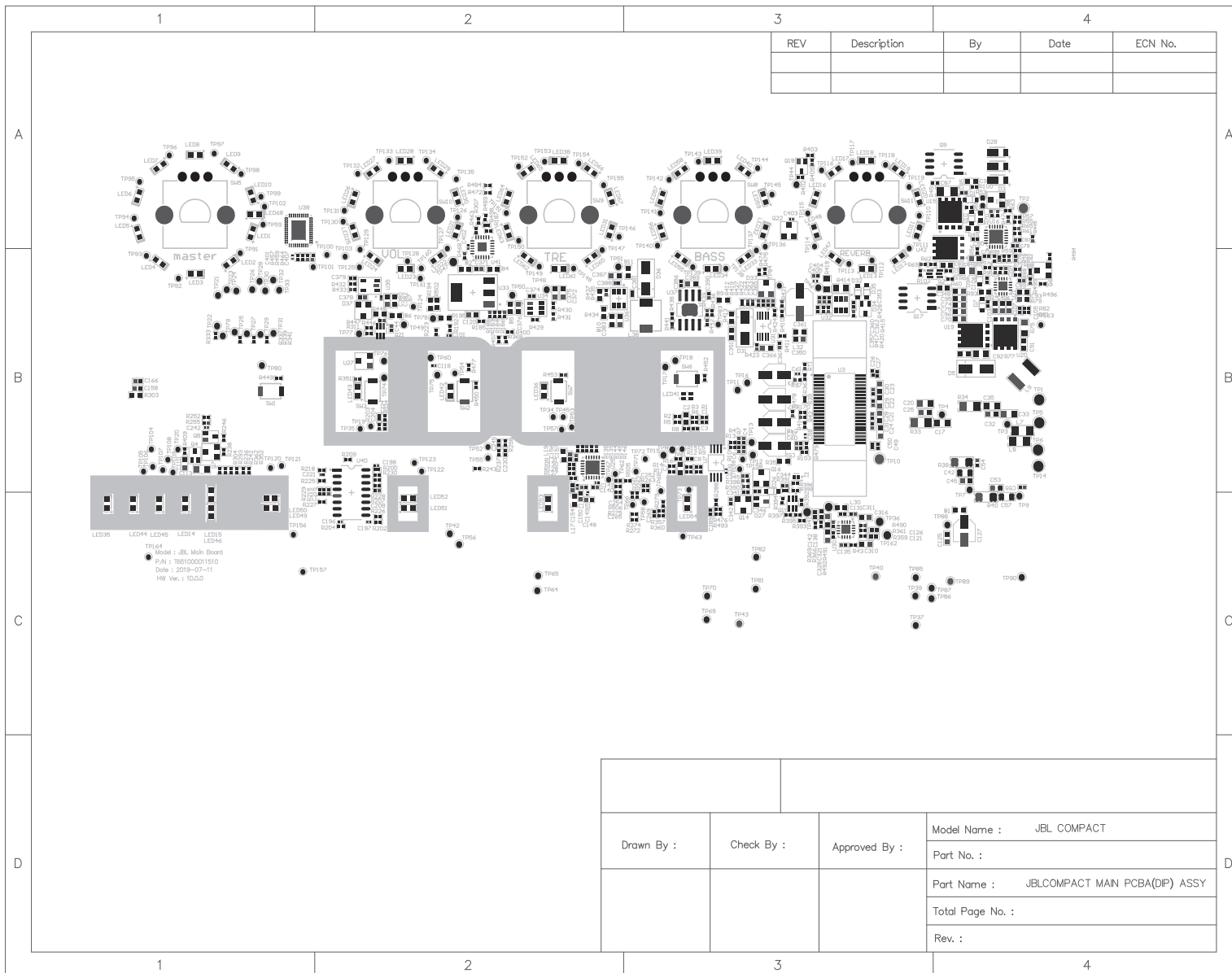


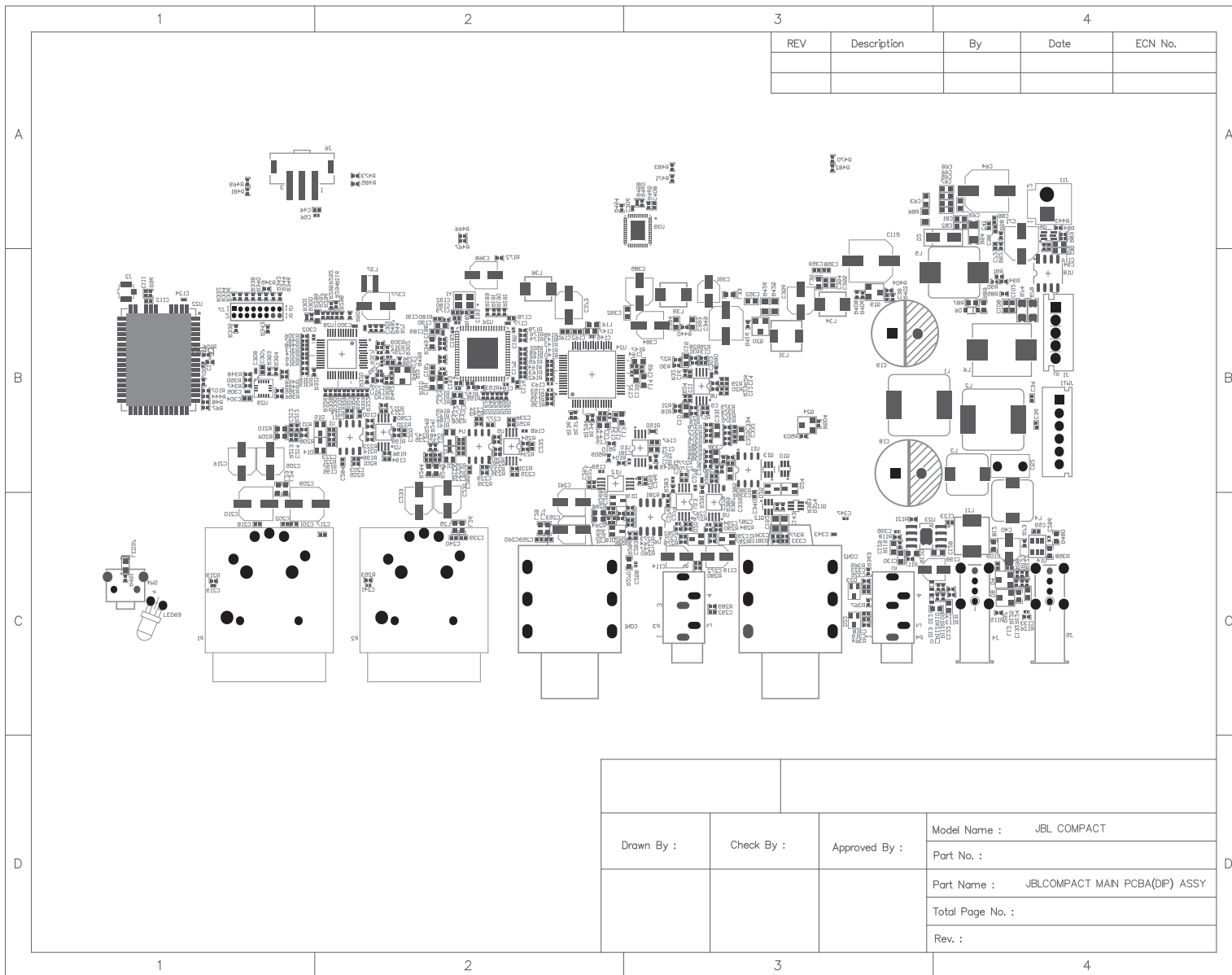


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# Bill of Materials

For reference only, refer to SBOM to view and order spare parts

Battery Connect Board Components		
Ref ID	Description	Qty
	BATTERY P 1.6 MM FR4 JBL CO 2L 94V- K	1
J1	TJC3-5A-CS 5PIN P:2.5MM WHITE M180 K	1
J2	TSB1-05231-3BT3A 2.5MM 3PIN DIP 180 K	1

Front LED Board Components		
Ref ID	Description	Qty
J6	XHB-3A-KL 3PIN 2.5MM DIP K	1
	JBL COMPACT FRONT LED BOARD SMT ASSY K	1
LED2	LED 525 0603 19-217\GHC-Y EVERLIGH K	1
LED1	LED WHI 1.6X0. L-C191WDT-5A PARA LIG K	1

Main Board Components		
Ref ID	Description	Qty
	JBLCOMPACT MAIN PCBA(DIP) ASSY K	1
	COMPACT LED HOLDER PA66 #LEDS-7.5 K	1
C18,C19	E 1000U 35V +-20% 13*21M LF102M1VP K	2
C52	SP CAP 0.47UF 100V +-5% C242A474J2S K	1
LED69	LED G 530 H3.85\L-H5C01AGC-0 PARA LIG K	1
SW4	KFC-A06-01B-50-160 4PIN DC12V 1A K	1
SW5,SW8,SW9,SW10,SW11	RE1200XE1-H01-0662 3PIN DC5V 0.5MA K	5
J11	GP CONNECTOR 2 PIN LEOCO 3951 WHITE L	1
J4,J5	USB2.0 AF DIP TYPE USB04-212-17-10 K	2
JWT1	CONNECTOR TJC3-6A-CS 6 PIN K	1
J1	TJC3-5A-CS 5PIN P:2.5MM WHITE M180 K	1
J7	HEAD 2*8P P1.27 M180 1.27-2X8A-8.5 K	1
CON1,CON2	6.35 CONNECTOR 6PIN DIP K	2
P3,P4	PHONE JACK 3.5MM CK3.5+13C K	2
P1,P2	XLR JACK 7PIN 90° XLR-11W-N3B K	2
	JBL COMPACT MAIN PCBA(SMT) ASSY K	1
R4,R13,R20,R29,R44,R71,R97,R98,R140,R141,R190,R191,R199,R220,R234,R254,R294,R295,R309,R312,R313,R314,R318,R319,R320,R321,R322,R323,R324,R325,R326,R327,R328,R329,R330,R331,R374,R383,R402,R457,R458,R459,R460,R488,R497,R499,R500,R171,R193,R197,R221,R232,R256,R225,R226	CHIP 100 OHM 50PPM +-1% 0402 YAGE L	55
R46,R55,R57,R61,R68,R85,R99,R420	CHIP 100K OHM 50PPM +-1% 0402 WALS L	8
R48,R67,R107,R150,R161,R167,R169,R173,R175,R177,R207,R215,R219,R253,R332,R334,R335,R336,R337,R338,R339,R340,R341,R343,R344,R346,R444,R507	CHIP 0 OHM 200PPM +-5% 0402 WALS L	28
B1,B2,B4,B5,B6,B7,B9,B10,B11,B12,L13,L14,L15,L16,L17,L19,L30,L32,L33,L35,R35,R303,R308,R310,R349	CHIP 0 OHM 0 OHM 0 OHM 0603 WALS L	25
R36	CHIP 100K OHM 200PPM +-5% 0402 YAGE L	1
R95,R393,R394	CHIP 100K OHM 200PPM +-5% 0402 WALS L	3

LR1,LR2,R106,R196,R200,R202,R203,R204,R217,R218,R224,R231,R237,R251,R258,R311,R396,R399,R503	CHIP 1K OHM 100PPM +-1% 0402 WALS L	19
R39,R41,R42,R47,R59,R62,R64,R69,R84,R88,R102,R238,R252,R255,R278,R287,R298,R302,R305,R348,R355,R356,R392,R406,R408,R409,R431,R443,R445,R446,R461,R469,R470,R471,R472,R473,R474,R475,R478,R481,R482,R483,R484,R485,R486,R494,R205,R214,R239,R249,R105,R108,R464,R465,R90,R480	CHIP 10K OHM 100PPM +-1% 0402 WALS L	56
R194,R195,R299,R358,R502	CHIP 10K OHM 100PPM +-1% 0603 WALS L	5
R117,R118,R121,R403,R432,R433,R438,R508	CHIP 100K OHM 100PPM +-1% 0402 WALS L	8
R182,R268,R269,R395	CHIP 1M OHM 100PPM +-1% 0402 WALS L	4
R56,R76,R80,R81,R82,R127,R128,R129,R130,R131,R132,R133,R134,R135,R136,R137,R138,R139,R142,R143,R146,R186,R188,R281,R286,R296,R297,R300,R301,R306,R307,R315,R316,R353,R354,R411,R416,R447,R454,R466,R467,R487,R489,R498,R113,R114	CHIP 10 OHM 100PPM +-1% 0402 WALS L	46
R53,R70,R89,R93	CHIP 1 OHM 100PPM +-1% 0603 WALS L	4
R425,R426	CHIP 1 OHM 100PPM +-1% 0805 WALS L	2
R74,R78	CHIP 0.01 OHM 1500PP +-1% 1206 WALS L	2
R45,R54	CHIP 0.01 OHM 75PPM +-1% 1206 WALS L	2
R94	CHIP 11K OHM 100PPM +-1% 0402 WALS L	1
R422,R227,R228	CHIP 1.2K OHM 100PPM +-1% 0402 WALS L	3
R119,R440	CHIP 1.3K OHM 100PPM +-1% 0402 WALS L	2
R58	CHIP 130K OHM 100PPM +-1% 0402 WALS L	1
R147	CHIP 1.37K OHM 100PPM +-1% 0603 WALS L	1
R439,R60	CHIP 15K OHM 100PPM +-0.1% 0402 WALS L	2
R198,R201,R216,R222,R233,R235,R250,R257	CHIP 16K OHM 100PPM +-1% 0402 WALS L	8
R3,R6,R12,R15,R19,R22,R28,R31	CHIP 180 OHM 100PPM +-1% 0402 WALS L	8
R206,R210,R240,R244,R264,R266	CHIP 180 OHM 100PPM +-1% 0603 WALS L	6
R370,R379,R380,R389	CHIP 1.8K OHM 100PPM +-1% 0402 WALS L	4
R120,R73	CHIP 18.7K OHM 100PPM +-1% 0603 WALS L	2
R282,R283,R290,R291,R259,R263,R271,R275,R260	CHIP 2K OHM 100PPM +-1% 0402 WALS L	9
R37,R72,R236,R242,R293,R304,R352,R362,R212,R213,R333,R357,R270,R273,R247,R248	CHIP 20K OHM 100PPM +-1% 0402 WALS L	16
R91,R436	CHIP 200K OHM 100PPM +-1% 0402 WALS L	2
R415	CHIP 2M OHM 100PPM +-1% 0402 WALS L	1
R419	CHIP 21K OHM 100PPM +-1% 0402 WALS L	1
R424	CHIP 220 OHM 100PPM +-1% 0402 WALS L	1
R181,R495,R456,R455	CHIP 2.2K OHM 100PPM +-1% 0402 WALS L	4
R65,R100,R101,R123,R125,R401,R404	CHIP 22K OHM 100PPM +-1% 0402 WALS L	7
R51,R92	CHIP 22 OHM 100PPM +-1% 0402 WALS L	2
R414,R418	CHIP 22 OHM 100PPM +-1% 0805 WALS L	2
R1,R8,R9,R16,R17,R24,R25,R32	CHIP 3K OHM 100PPM +-1% 0402 WALS L	8
R437	CHIP 3K OHM 100PPM +-1% 0603 WALS L	1
R145,R149,R183,R184,R405,R350	CHIP 3.3K OHM 100PPM +-1% 0402 WALS L	6



R63,R179,R246,R342,R423,R209,R243	CHIP 33K OHM 100PPM +-1% 0402 WALS L	7
R391,R397,R398	CHIP 330K OHM 100PPM +-1% 0402 WALS L	3
R103,R104,R479,R509	CHIP 3.3 OHM 100PPM +-1% 0402 WALS L	4
R148	CHIP 3.32K OHM 100PPM +-1% 0402 WALS L	1
R151	CHIP 3.9K OHM 100PPM +-1% 0402 WALS L	1
R410	CHIP 39K OHM 100PPM +-1% 0402 WALS L	1
R192,R223,R428	CHIP 430K OHM 100PPM +-1% 0402 WALS L	3
R180	CHIP 4.32K OHM 100PPM +-1% 0402 WALS L	1
R110	CHIP 43.2K OHM 100PPM +-1% 0402 WALS L	1
R417	CHIP 453K OHM 100PPM +-1% 0402 WALS L	1
R373,R376,R385,R387, R208,R211,R241,R245,R265,R267	CHIP 470 OHM 100PPM +-1% 0402 WALS L	10
R116,R292,R351,R421,R449,R450,R451,R452, R453,R463,R468	CHIP 4.7K OHM 100PPM +-1% 0402 WALS L	11
R317,R377,R381	CHIP 47K OHM 100PPM +-1% 0402 YAGE L	3
R7,R10,R23,R26,R83,R280,R289,R345,R363,R 367	CHIP 47K OHM 100PPM +-1% 0402 WALS L	10
R448	CHIP 4.7M OHM 100PPM +-1% 0603 WALS L	1
R152,R153,R154,R155,R156,R157,R158,R159 ,R160,R162,R163,R164,R165,R166,R168,R17 2,R174,R176,R178,R185,R187,R189,R368,R4 00,R407,R477,R501	CHIP 47 OHM 100PPM +-1% 0402 WALS L	27
R49,R87	CHIP 4.7 OHM 100PPM +-1% 0603 WALS L	2
R66,R75,R77,R86	CHIP 4.7 OHM 100PPM +-1% 0805 WALS L	4
R33,R34,R38,R40	CHIP 4.7 OHM 100PPM +-1% 1206 WALS L	4
R276,R277,R279,R284,R285,R288	CHIP 4.99K OHM 100PPM +-1% 0402 WALS L	6
R109,R111	CHIP 49.9K OHM 100PPM +-1% 0402 WALS L	2
R229,R230	CHIP 49.9 OHM 100PPM +-1% 0402 WALS L	2
R496,R261,R262,R272,R274	CHIP 5.1K OHM 100PPM +-1% 0402 WALS L	5
R434	CHIP 51K OHM 100PPM +-1% 0603 WALS L	1
R2,R5,R11,R14,R18,R21,R27,R30,R43,R359,R 361,R366,R369,R441,R490,R491,R492	CHIP 5.6K OHM 100PPM +-1% 0402 WALS L	17
R427,R429,R430,R435	CHIP 56K OHM 100PPM +-1% 0402 WALS L	4
R390,R412	CHIP 560K OHM 100PPM +-1% 0402 WALS L	2
R79	CHIP 6.04K OHM 100PPM +-1% 0603 WALS L	1
R371,R372,R375,R378,R382,R384,R386,R388	CHIP 6.2K OHM 100PPM +-1% 0402 WALS L	8
R347	CHIP 7.5K OHM 100PPM +-1% 0402 WALS L	1
R442,R112	CHIP 75K OHM 100PPM +-1% 0402 WALS L	2
R52,R462	CHIP 910K OHM 100PPM +-1% 0402 WALS L	2
C41,C62,C73,C78,C80,C88,C98,C100,C10 4,C106,C208,C215,C276,C277,C283,C284, C285,C342,C345,C388,C133	CAP .10UF 25V +-10% 0402X5R SAMSUNG L	21
C103,C122,C128,C132,C139,C147,C181,C 372,C375,C382,C406	CAP 10UF 10V +-20% 0603X5R SAMSUNG L	11
C192	CAP 4.7PF 50V +-.05PF 0402 NP WALSIN L	1
C20,C33,C113	CAP 1.0UF 100V +-10% 0805X7S MURATA L	3
R96	CAP NPO 10PF 50V +-5% 0402 WALSIN L	1
C39,C105,C109,C201,C202,C212,C214,C2 17,C218,C235,C237,C239,C240,C255,C25 6,C259,C260,C267,C270,C287,C290,C365, C203,C211,C229,C234	CAP NPO 100PF 50V +-5% 0402 WALSIN L	26
C164	CAP NPO 1000P 50V +-5% 0402 YAGEO L	1

C271,C291	CAP NPO 18PF 50V +-5% 0402 WALSIN L	2
C72,C357,C379	CAP NPO 22PF 50V +-5% 0402 WALSIN L	3
C34,C36,C54,C55,C364	CAP NPO 220PF 50V +-5% 0402 WALSIN L	5
C200,C232,C359	CAP NPO 330PF 50V +-5% 0402 DARFON L	3
C4,C6,C12,C14	CAP NPO 470PF 50V +-5% 0402 WALSIN L	4
C193	CAP NPO 68PF 50V +-5% 0402 WALSIN L	1
C1,C3,C5,C8,C9,C11,C13,C16,C329,C334,C335,C340	CAP NPO 680PF 50V +-5% 0402 WALSIN L	12
C190	CAP NPO 150PF 50V +-5% 0603 WALSIN L	1
C120,C169,C206	CAP NPO 27PF 50V +-5% 0603 WALSIN L	3
C129,C393	CAP NPO 390PF 50V +-5% 0603 WALSIN L	2
C333,C336	CAP X7R 1000P 50V +-10% 0402 WALSIN L	2
C89,C144,C151,C157,C174,C176,C178,C180,C358,C363	CAP X7R .01UF 50V +-10% 0402 SAMSUN L	10
C26,C27,C28,C29,C30,C31,C49,C50,C79,C85,C90,C123,C353,C360,C362,C374,C381,C386,C390,C367	CAP X7R .10UF 50V +-10% 0402 WALSIN L	20
C37,C60,C86,C97,C131,C135,C311,C407,C408	CAP X7R 1.0UF 10V +-10% 0402 WALSIN L	9
C165	CAP X7R .022U 16V +-10% 0402 SAMSUN L	1
C194,C204,C213,C224,C225,C230,C236,C245,C246,C252,C257,C265,C272,C292	CAP X7R 470PF 50V +-5% 0402 WALSIN L	14
C191	CAP X7R 5600P 16V +-10% 0402 WALSIN L	1
C25,C32,C45,C53	CAP X7R 1000P 100V +-10% 0603 WALSIN L	4
C110,C352	CAP X7R .10UF 100V +-10% 0603 WALSIN L	2
C2,C7,C10,C15,C310,C316,C321,C328	CAP X7R 1800P 50V +-10% 0603 WALSIN L	8
C63,C83,C91,C92	CAP X7R 220PF 100V +-10% 0603 WALSIN L	4
C130,C394	CAP X7R .022U 50V +-10% 0603 WALSIN L	2
C99,C348,C94,C116	CAP X7R .22UF 50V +-10% 0603 SAMSUN L	4
C331,C338	CAP X7R 4700P 50V +-10% 0603 WALSIN L	2
C93	CAP X7R .047U 50V +-10% 0603 SAMSUN L	1
C366	CAP X7R .47UF 50V +-10% 0603 WALSIN L	1
C17,C35,C42,C57	CAP X7R .01UF 100V +-10% 0805 WALSIN L	4
C140,C44,C141	CAP X5R 1.0UF 6.3V +-10% 0402 NORMAL L	3
C341,C344,C346	CAP X5R 1.0UF 25V +-10% 0402 SAMSUN L	3
C121,C126,C136,C138,C142,C146,C148,C150,C154,C156,C158,C160,C162,C166,C167,C172,C187,C189,C298,C304,C307,C354,C355,C371,C378,C170,C195,C207,220,C222,C223,C226	CAP X5R 10UF 6.3V +-20% 0402 MURATA L	32
C46,C59,C404	CAP X5R 4.7UF 6.3V +-20% 0402 SAMSUN L	3
C21,C22,C23,C24,C65,C66,C67,C68,C69,C70,C74,C75,C84,C95,C96,C350,C389	CAP X5R 1.0UF 50V +-10% 0603 SAMSUN L	17
C81,C82,C102,C108,C376,C383,C387,C392	CAP X5R 10UF 25V +-20% 0603 SAMSUN L	8
C107	CAP X5R 2.2UF 25V +-10% 0603 SAMSUN L	1
C125	CAP X5R 2.2UF 50V +-10% 0603 SAMSUN L	1
C143,C152	CAP X5R 10UF 16V +-10% 0805 TAIYO L	2

C56,C58,C61,C76,C77,C101,C117,C124,C134,C137,C145,C149,C153,C155,C159,C161,C163,C168,C173,C175,C177,C179,C182,C183,C184,C185,C186,C188,C196,C197,C198,C219,C221,C241,C242,C274,C278,C279,C280,C281,C282,C286,C294,C295,C296,C297,C299,C300,C301,C302,C303,C305,C306,C308,C343,C347,C380,C395,C401,C402,C403,C405,C118,C227	CAP X5R .10UF 10V +-10% 0201 SAMSUN L	64
C127,C391	E 10UF 35V +-20% 4*5.5M HV100M035 K	2
C356,C368,C373,C377	E 100UF 6.3V +-20% 5X5.4M CKQJ101M- K	4
C71	E 100UF 25V +-20% 6.3*7. DV101M025 K	1
C43,C47,C48,C51,C114,C119	E 22UF 16V +-20% 4X5.4M CK1C220M- K	6
C205,C216,C231,C233,C253,C261,C361,C384,C385	E 22UF 25V +-20% 5*5.5 LV220M025 K	9
C209,C210,C349	E 22UF 63V +-20% 6.3X7. VZH220M1J K	3
C64,C115	E 220UF 35V +-20% 8*10 VEJ221M1V L	2
C40,C199	E 47UF 6.3V +-20% 4*5MM CKOJ470M- K	2
D28,D29,D30	DIODE 40V 3A SBR3U40P1-7 DIODE K	3
D9	SWITC 80V 100MA 1SS355VM TE-17 ROHM L	1
D37	SWITC 100V 215MA BAS16 NXP K	1
D3,D4,D8	SWITC 30V 0.2A BAT54-7-F DIODE K	3
D1,D6,D7,D10,D26	SWITC 100V 150MA 1N4148WS TSC L	5
D32,D35	SWITC 100V 250MA BAS16J NXP K	2
D31	SWITC 100V 1A S100W PAN J J	1
D2,D5,D36	SWITC 28V 3A SK34A TSC K	3
D14,D15,D16,D17,D18,D19,D20,D21,D22,D23,D24,D25,D27	SWITC 75V 150MA BAV99W PAN J K	13
D34	SWITC 100V 215MA DAN217S3-0-T1-G CYSTE K	1
Z1	ZD 15V 250MW 5% SOD-88 NXP K	1
LED1,LED2,LED3,LED4,LED5,LED6,LED7,LED8,LED9,LED10,LED11,LED12,LED13,LED14,LED15,LED16,LED17,LED18,LED19,LED20,LED21,LED22,LED23,LED24,LED25,LED26,LED27,LED28,LED29,LED30,LED31,LED32,LED33,LED34,LED35,LED36,LED38,LED39,LED40,LED44,LED45,LED47,LED48,LED50,LED52,LED53,LED54,LED55,LED56,LED57,LED58,LED59,LED60,LED61,LED62,LED63,LED64,LED65,LED66,LED67	LED 525 0603 19-217(GHC-Y EVERLIGH K	60
LED41	LED RGB 1.6*1. LTST-C19HE1W LITEON ( W	1
LED42,LED46,LED49,LED51,LED68	LED RED 1.6X0. 19-213VR6SC- EVERLIGH L	5
LED43	LED ORA 1.6X0. L-C191UOCT PARA LIG K	1
Q8,Q4	NPN 65V BC846BW SC70 ( NXP K	2
Q18	NPN 40V MMBT3904WT1 SC70 ( ON K	1
Q15	NPN 40V HBN3904S6R SOT-36 CYSTEC K	1
Q9,Q17,U18	PMOS -30V IRF9321TRPBF SOP I.R. K	3
Q6,Q14,Q23,Q1	PMOS -50V BSS84-7-F SOT23 DIODES K	4
Q22	PMOS 30V AO3401A SOT23 AOS L	1
Q7	PMOS 60V TSM2309CX RF SOT23 TSC (台 K	1

Q19,Q24	NMOS 60V 2N7002 SOT23 UTC L	2
Q16	NMOS 60V L2N7002LT1G SOT23 LRC K	1
Q2,Q3,Q5,Q10,Q11,Q12,Q13,Q21	NMOS 60 V 2N7002DW-7-F SC-88( DIODES K	8
Q20	NMOS 60V TSM2308 SOT23 TSC (台 K	1
U15,U19,U20,U42	NMOS 40V BSC093N04LS SMD INFINE W	4
D12,D13	TVS 5.78~ RSB6.8SM SMD ROHM L	2
D33	TVS 24V ESDCAN01-2BL SMD ST K	1
U16	SP BQ24610 VQFN-N24 TI K	1
U14	SP BD2242G-GTR SSOP6 ROHM K	1
U41	MCU AW9523BTQR QFN24 AWINIC L	1
U27	MCU MAX809STRG SOT23-3 ON SEMI K	1
U28	MCU STM32F030CCT6TR LQFP48 ST K	1
U11	OP RC4558IDR SOP-8 TI K	1
U30	OP SGM4917AYTQ16GTR TQFN-3*3 SGMICRO K	1
U2,U5,U7,U8,U9,U10,U12,U13	OP TP2412-TSR 8-PIN TS 3PEAK K	8
U1,U4,U6	OP OPA1678IDR SOIC-8PI TI K	3
U3	OP TPA3221DDVR 44-HTSSO TI K	1
U35	OP TLV62568DBVR SOT-23 TI K	1
U40	OP SGM4510YS16GTR SOIC-16 SGMICRO K	1
U34	REG TPS562200 SOT-23 TI L	1
U36	REG LV2843 TSOT23-6 TI L	1
U33	REG LM1117-3.3L3-0-T3 SOT223 CYSTECH K	1
U38,U39	DRIVER LP5036 VQFN-46 TI K	2
U29	A/D LIS3DHTR LGA-16 ST K	1
U25	A/D PLV320ADC5140IRTW WQFN (24 TI K	1
U24	A/D D/A CS42526-CQZR LQFP10 CIRRUS L	1
U26	A/D D/A ADAU1452K 72-LEAD ADI (AN K	1
U31	DC DC CVT LM3486MMX VSSOP TI K	1
U23,U37	DC DC CVT TPS54335ADD SOIC8 TI K	2
U21	DC DC CVT XR4981 QFN3X3-1 XYSEMI K	1
U32	DC DC CVT TPS54202HDD SOT-23(6 TI K	1
L34,L36,L39	22UH 1.5A 100K SMD SGTE GPSR055 K	3
L37	3.3UH 1.75A 100K SMD MICROG MPIT301 K	1
L3,L4	10UH 6A 100K SMD TSA SRI0885 L	2
L31,L38	100UH 0.42A 100K SMD MICROG MPIT602 K	2
L6	10UH 8A 100K SMD HOTLAN MCF-105 K	1
L11	10UH 4A 100K SMD HOTLAN MCW-063 K	1
L1,L2	10UH 7.5A 100 SMD CODACA SPRH125 K	2
L5	15UH 7A 100K SMD CODACA CSAB104 K	1
SW1,SW2,SW3,SW6,SW7	CHIP TACT KFC-A4.0-01T-20-160 12V 50MA K	5
J2	SMD IPEX CONNECTOR 818000368 K	1
J6	XHB-3AT-JK 3PIN 2.5MM SMD K	1
Y1	TEMP-CRYSTAL 12.288MH SMD SIWARD XTL571	1
U22	JBL COMPACT BLUETOOTH MODULE BTM-0214 K	1
L7,L8	INDUCTOR 1206 EMI 2A 390OHMS @ 100MHZ K	2
L9	CHIP BEAD 120 OHM 25% 100MHZ 9A 1812 K	1
RT1	100K 0402 NTC L	1