

A

B

C

D

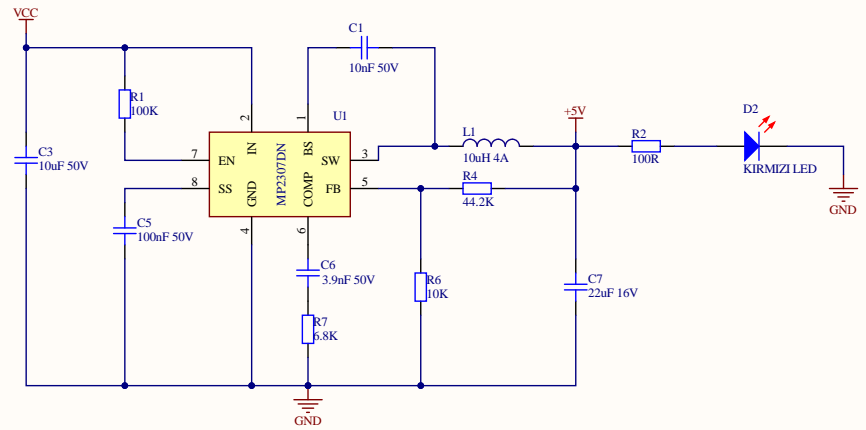
A

B

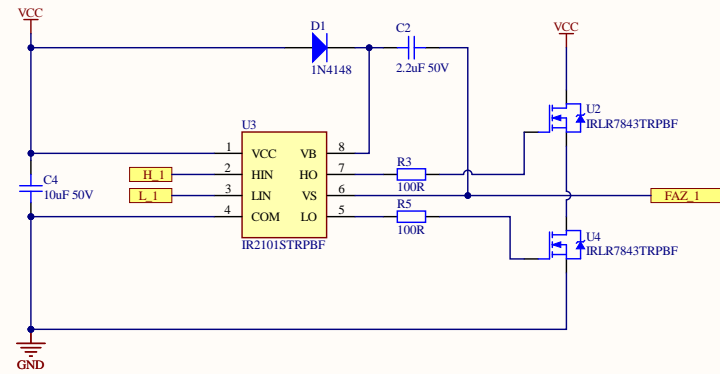
C

D

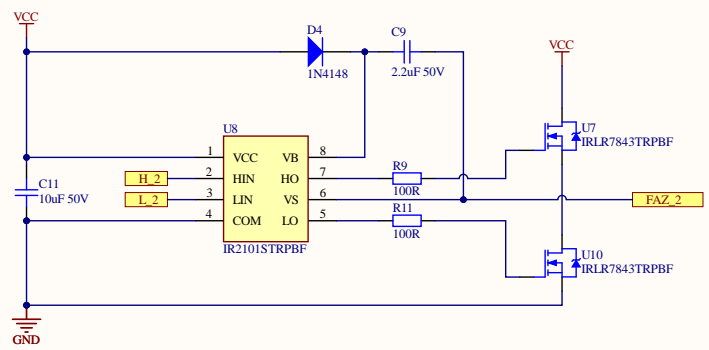
POWER



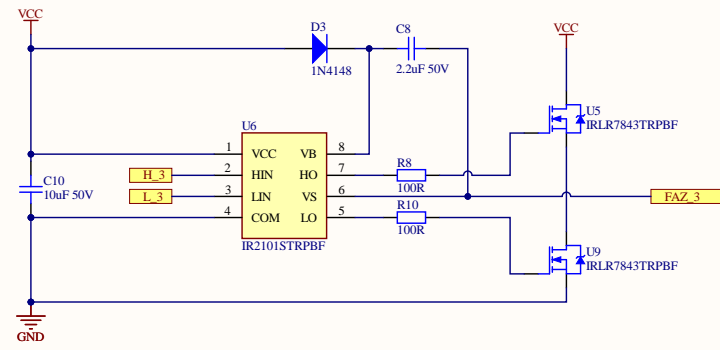
DRIVER PHASE 1



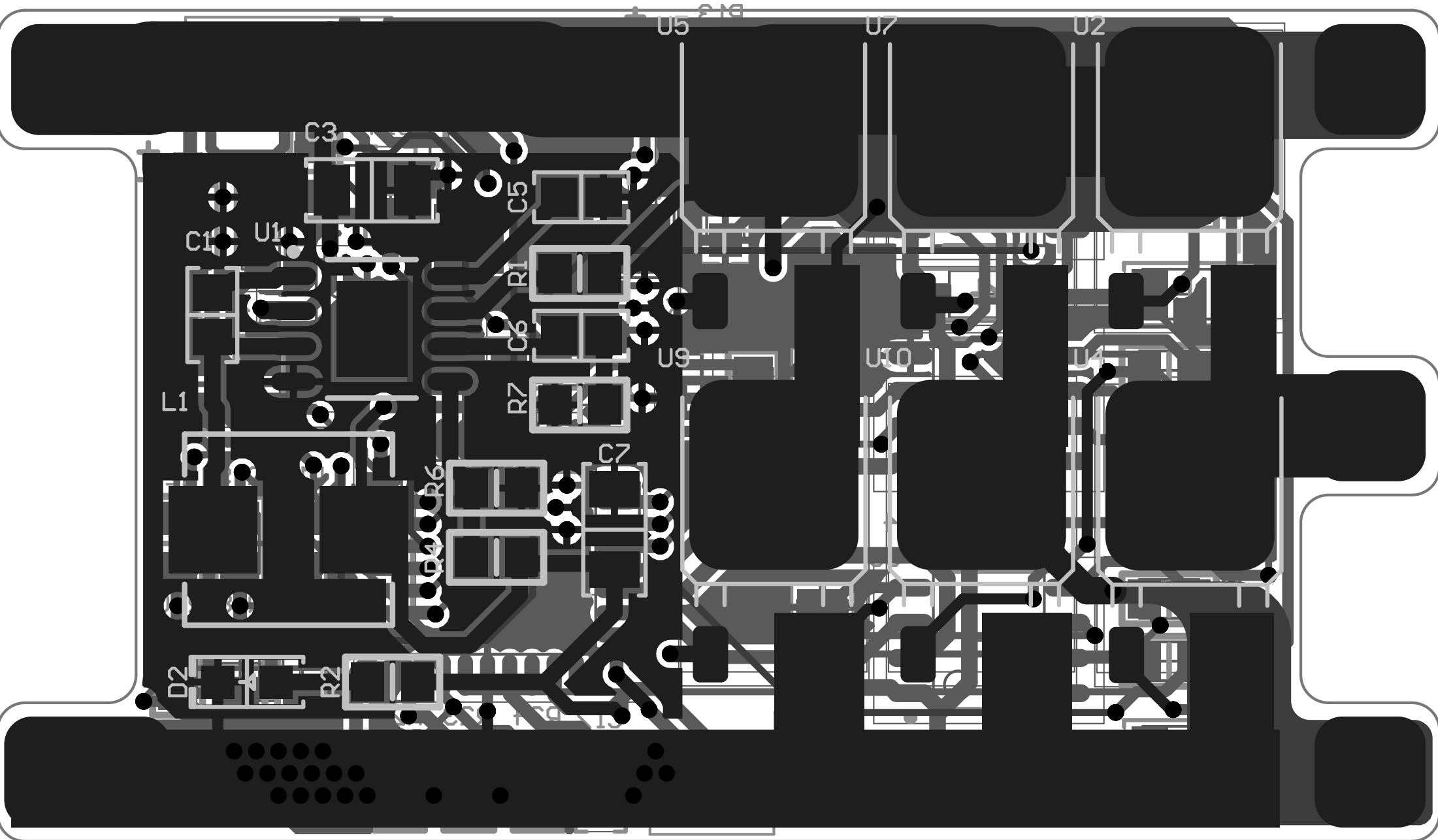
DRIVER PHASE 2



DRIVER PHASE 3



TANIM / DESCRIPTION		
DONVAADI / FILENAME PowerSchDoc	HAZIRLAYAN / PREPARED BY YAYINTARBU / REL DATE	
Cannot open file C:\Users\90537\Downloads\signature.png	KONTROL EDEN / CHECKED BY *	COMPANY NAME *
	ONAYLAYAN / APPROVED BY *	REVIZYON / REVISION *
BOLUM DEPARTMENT ELECTRICAL - ELECTRONICS ENGINEERING	BOYUT / SIZE	SAYFA / SHEET 1 / 2



Comment	Description	Designator	Footprint	LibRef	Quantity
BUZZER MAGN 3.6V 7.5X7.5MM SMD	Buzzers Transducer, Externally Driven Magnetic 3.6V/100mA 2.73KHz±80dB @3.6V, 10cm Surface Mount Solder Pads	BUZ1	BUZ_CMT-7525	Buzzer(CMT-7525-80- SMT-TR)	1
CAP CER 1000PF 50V X7R0805	1000pF±10%50V Ceramic Capacitor X7R0805 (2012 Metric)	C1	CAP0805/2012	10nF 50V 0805	1
CAP CER 2.2UF 50V X5R1206	2.2uF±10%50V Ceramic Capacitor X5R1206 (3216 Metric)	C2, C8, C9	CAP1206/3216	2.2uF 50V 1206	3
CAP CER 10UF 50V X5R1206	10uF±10%50V Ceramic Capacitor X5R1206 (3216 Metric)	C3, C4, C10, C11	CAP1206/3216	10uF 50V 1206	4
CAP CER 0.1UF 50V X7R0805	0.1uF±10%50V Ceramic Capacitor X7R0805 (2012 Metric)	C5, C12, C13, C14	CAP0805/2012	100nF 50V 0805	4
CAP CER 3900PF 50V X7R0805	3900pF±10%50V Ceramic Capacitor X7R0805 (2012 Metric)	C6	CAP0805/2012	3.9nF 50V 0805	1
CAP CERAMIC 22UF 16V X7S20% PAD	22uF±20%16V Ceramic Capacitor X7S1206 (3216 Metric)	C7	CAP1206/3216	22uF 16V 1206	1
1N4148 Diode	DIODE GEN PURP 100V/150MA SOD123	D1, D3, D4	SOD-123	1N4148	3
Red 645nm LED Indication - Discrete 1.8V 0805	LED RED DIFFUSED 0805 SMD	D2, D5, D6, D7	SMD_LED 0805/2012 RED	LED_Kirmia	4
FIXED IND 10uH 4A 68 MOHM SMD	10uH Shielded Molded Inductor 4A 68mOhm Max Nonstandard	L1	ASPI-0630LR-100M- T15	10uH 4A	1
WRPHD 2.54 mm Angled Socket Header	WRPHD 2.54 mm Angled Socket Header	P1	PWM_CONN	HDR(1X3)	1
WRPHD 2.54 mm Angled Socket Header	WRPHD 2.54 mm Angled Socket Header	P2	TTL_CONN_5	HDR(1X5)	1
RES SMD 100K OHM 1% 1/8W 0805	100K Ohms±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thick Film	R1	RES_0805	100K0805	1
RES SMD 100 OHM 1% 1/8W 0805	100 Ohms±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thick Film	R2, R3, R5, R8, R9, R10, R11, R12, R13, R14	RES_0805	100R0805	10
RES SMD 44.2K OHM 1% 1/8W 0805	44.2K Ohms±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thick Film	R4	RES_0805	44.2K0805	1
RES SMD 10K OHM 1% 1/8W 0805	10K Ohms±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thick Film	R6, R15, R22, R23, R24, R25	RES_0805	10K0805	6
RES SMD 6.8K OHM 1% 1/8W 0805	6.8K Ohms±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thick Film	R7	RES_0805	6.8K0805	1
RES SMD 33K OHM 1% 1/8W 0805	33K Ohms±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Moisture Resistant Thick Film	R16, R17, R18, R19, R20, R21	RES_0805	33K0805	6
IC REG BUCK ADJUSTABLE 3A 8SOIC	Buck Switching Regulator IC Positive Adjustable 0.925V 1 Output 3A 8-SOIC (0.154", 3.90mm Width) Exposed Pad	U1	SOIC8_PAD	MP2307DN	1
MOSFET N-CH 30V 161A DPAK	N-Channel 30V/161A (Tc) 140W (Tc) Surface Mount D-Pak	U2, U4, U5, U7, U9, U10	DPAK	IRLR7843	6
IC GATE DRV R HALF- BRIDGE 8SOIC	Half-Bridge Gate Driver IC Non-Inverting 8-SOIC	U3, U6, U8	SOIC8	IR2101	3
IC MCU 8BIT 32KB FLASH 32TQFP	AVR/ARM ATmega Microcontroller IC 8- Bit 20MHz 32KB (16Kx 16) FLASH 32-TQFP (7x7)	U11	TQFP32	ATMEGA328P	1
CERAMIC RES 16.0000MHZ 15PF SMD	16MHz Ceramic Resonator Built in Capacitor 15pF±0.3% -20°C ~ 80°C Surface Mount	X1	CRYSTAL_16MHZ(CTS E16)	CRYSTAL 16.0000MHZ(CSTCE16 MOV53-R0)	1