



Title		
<u>brd_2_switching_noise_with_good_and_bad_layout</u>		
Size A	Number Text	Revision REV01
Date:	11/26/2025	Sheet of
File:	C:\Users\...\Schematic Board2.SchDoc	Drawn By: Nikhil Sawane

Comment	Description	Designator	Footprint	QRef	Quantity	Loc Part
	Ceramic Capacitors 100 MultiLayer Granite Capacitors MLCC - SMD/3MT RH45	C22uF	100_Passive_Capacitor	C_22uF_1206	1	C12891
	Ceramic Capacitors 100 MultiLayer Granite Capacitors MLCC - SMD/3MT RH45	C22uF	100_Passive_Capacitor	C_22uF_1206	1	C12891
	MULTILAYER CERAMIC CAPACITORS(MLCC) SMD/MT UF50V 100 RH45	C1uF	100_Passive_Capacitor	C_1uF_1206	1	C12846
	Ceramic Capacitors 100 MultiLayer Granite Capacitors MLCC - SMD/3MT RH45	C22uF	100_Passive_Capacitor	C_22uF_1206	1	C12891
	Ceramic Capacitors 100 MultiLayer Granite Capacitors MLCC - SMD/3MT RH45	C22uF	100_Passive_Capacitor	C_22uF_1206	1	C12891
	Ceramic Capacitors 100 MultiLayer Granite Capacitors MLCC - SMD/3MT RH45	C22uF	100_Passive_Capacitor	C_22uF_1206	1	C12891
	Power LED - 4mm Red (L77) RH45	LED1	LED_1206	LED_RED_1206	1	C128133
	Power LED - 4mm Red (L77) RH45	LED2	LED_1206	LED_RED_1206	1	C128133
	Power LED - 4mm Red (L77) RH45	LED3	LED_1206	LED_RED_1206	1	C128133
	Power LED - 4mm Red (L77) RH45	LED4	LED_1206	LED_RED_1206	1	C128133
	Power LED - 4mm Red (L77) RH45	LED5	LED_1206	LED_RED_1206	1	C128133
	Power LED - 4mm Red (L77) RH45	LED6	LED_1206	LED_RED_1206	1	C128133
	Power LED - 4mm Red (L77) RH45	LED7	LED_1206	LED_RED_1206	1	C128133
	Power LED - 4mm Red (L77) RH45	LED8	LED_1206	LED_RED_1206	1	C128133
	Power Bank Power Jack 2.1mm ID (0.037), 5.5mm OD (0.217) Through Hole, Right Angle	Power_Jack	P_Power_Jack	Power_Jack	1	C136744
AMB117-3.3	CONFORMAL POLYURETHANE POSTIVE/NED-1.3W 8000MA/13.3V/1A 120K OHMS	PSI	I2O	PS_AMS_I2O_2u3	1	C12816
1k	CHP1032R, SURFACE MOUNT 100K OHMS/1%14V 120K OHMS	R1	100_Passive_Resistor	R_1K_1206	1	C14410
1k	CHP1032R, SURFACE MOUNT 100K OHMS/1%14V 120K OHMS	R2	100_Passive_Resistor	R_1K_1206	1	C14410
1k	CHP1032R, SURFACE MOUNT 100K OHMS/1%14V 120K OHMS	R3	100_Passive_Resistor	R_1K_1206	1	C14410
1k	CHP1032R, SURFACE MOUNT 100K OHMS/1%14V 120K OHMS	R4	100_Passive_Resistor	R_1K_1206	1	C14410
10k	10kOhm 0201 250V 14V/Chip Resistor 100% (2161 Metric) Power - Automotive AEC-Q200 Thick Film	R5	100_Passive_Resistor	R_10kOhm_1206	1	C17902
47 Ohms	4700ppm/1206 Chip Resistor - Surface Mount RH45	R6	100_Passive_Resistor	R_470Ohm_1206	1	C12834
47 Ohms	4700ppm/1206 Chip Resistor - Surface Mount RH45	R7	100_Passive_Resistor	R_470Ohm_1206	1	C12834
47 Ohms	4700ppm/1206 Chip Resistor - Surface Mount RH45	R8	100_Passive_Resistor	R_470Ohm_1206	1	C12834
47 Ohms	4700ppm/1206 Chip Resistor - Surface Mount RH45	R9	100_Passive_Resistor	R_470Ohm_1206	1	C12834
47 Ohms	4700ppm/1206 Chip Resistor - Surface Mount RH45	R10	100_Passive_Resistor	R_470Ohm_1206	1	C12834
47 Ohms	4700ppm/1206 Chip Resistor - Surface Mount RH45	R11	100_Passive_Resistor	R_470Ohm_1206	1	C12834
47 Ohms	4700ppm/1206 Chip Resistor - Surface Mount RH45	R12	100_Passive_Resistor	R_470Ohm_1206	1	C12834
3W/255, OFFON	2Pin Header	S1/1	2Pin_Header_Conn	3W_2Pin_100mil_Seri	1	C124375
100, OFFON	2Pin Header	S1/2	2Pin_Header_Conn	3W_2Pin_100mil_Seri	1	C124375
3W/2W/3/3	Motor Driver Through Hole Position 0.107' 0.254mm	S1/3	3_Pin_100ml_Seri	3W_2Pin_100ml_Seri	1	C126257
3W/3/3, VCC	2Pin Header	S1/4	2Pin_Header_Conn	3W_2Pin_100mil_Seri	1	C124375
3W/Bad_VCC	2Pin Header	S1/5	2Pin_Header_Conn	3W_2Pin_100mil_Seri	1	C124375
TP_3V	Net Point 300mil	TP1	TP10_Probe	TP_3V_Probe	1	
TP_105_Output	Net Point 300mil Centers	TP2	TP10_Probe	TP_105_Probe	1	
TP_105	Net Point 300mil Centers	TP3	TP10_Probe	TP_105_Probe	1	
TP_105_V	Net Point 300mil Centers	TP4	TP10_Probe	TP_105_Probe	1	
TP_Good_Q_Low	Net Point 300mil Centers	TP5	TP10_Probe	TP_105_Probe	1	
TP_Good_Q_High	Net Point 300mil Centers	TP6	TP10_Probe	TP_105_Probe	1	
TP_Good_Trigger	Net Point 300mil Centers	TP7	TP10_Probe	TP_105_Probe	1	
TP_Bad_Q_Low	Net Point 300mil Centers	TP8	TP10_Probe	TP_105_Probe	1	
TP_Bad_Q_High	Net Point 300mil Centers	TP9	TP10_Probe	TP_105_Probe	1	
TP_Bad_Trigger	Net Point 300mil Centers	TP10	TP10_Probe	TP_105_Probe	1	
TP_Bad_Out	Net Point 300mil Centers	TP11	TP10_Probe	TP_105_Probe	1	
SN74H14DQR	Inverter IC/Driver Schmitt Trigger 14 SOIC	LB	HE74HC14	U74HC14	1	C12842
LMC5620AN/NOPB	655 Timer/Oscillator 14V/100mA 8.5ns	LB	TSSOP16TR	U555_Fast	1	C12870
SN74H14DQR	Inverter IC/Driver Schmitt Trigger 14 SOIC	LB	HE74HC14	U74HC14	1	C12842