

Gate Driver Dizgi Planı

Bridges Sheet

Phase A				
	Q5	GS66508B	GD_Bridges.SchDoc	GS66508B
	Q6	GS66508B	GD_Bridges.SchDoc	GS66508B
	C49	0.1uF, 450V	GD_Bridges.SchDoc	1206 Package
	C50	5u	GD_Bridges.SchDoc	Film_Cap_11*31.5*21
	C51	0.1uF, 450V	GD_Bridges.SchDoc	1206 Package
	TP13	Test Point	GD_Bridges.SchDoc	Test Point
Phase B				
	Q3	GS66508B	GD_Bridges.SchDoc	GS66508B
	Q4	GS66508B	GD_Bridges.SchDoc	GS66508B
	C34	5u	GD_Bridges.SchDoc	Film_Cap_11*31.5*21
	C35	0.1uF, 450V	GD_Bridges.SchDoc	1206 Package
	C44	0.1uF, 450V	GD_Bridges.SchDoc	1206 Package
	TP11	Test Point	GD_Bridges.SchDoc	Test Point
Phase C				
	Q1	GS66508B	GD_Bridges.SchDoc	GS66508B
	Q2	GS66508B	GD_Bridges.SchDoc	GS66508B
	C8	5u	GD_Bridges.SchDoc	Film_Cap_11*31.5*21
	C14	0.1uF, 450V	GD_Bridges.SchDoc	1206 Package
	C21	0.1uF, 450V	GD_Bridges.SchDoc	1206 Package
	TP4	Test Point	GD_Bridges.SchDoc	Test Point
Rsense				
	R1	Rsense	GD_Bridges.SchDoc	1206 (3216)
	R27	Rsense	GD_Bridges.SchDoc	1206 (3216)
	R43	Rsense	GD_Bridges.SchDoc	1206 (3216)

1. TURUNCU işaretlenmiş GaN'lar lehimlenecek
2. YEŞİL işaretlenmiş 1206 paket ve Test Pointler lehimlenecek
3. C50, C34, C8 büyüklüklerinden dolayı en son lehimlenecek

Main Sheet

	C1	100u	GD_Main.SchDoc	CAPPR6.3x
	C13	100u	GD_Main.SchDoc	CAPPR6.3x
	C15	100u	GD_Main.SchDoc	CAPPR6.3x
	C16	100u	GD_Main.SchDoc	CAPPR6.3x
	C3	100u	GD_Main.SchDoc	CAPPR6.3x
	C9	100u	GD_Main.SchDoc	CAPPR6.3x
	J1	Header 6x2	GD_Main.SchDoc	HDR6x2_IPL
	J2	Header 6x2	GD_Main.SchDoc	HDR6x2_IPL
	J3	Terminal_Screw	GD_Main.SchDoc	Terminal_Screw
	J4	Header 6x2	GD_Main.SchDoc	HDR6x2_IPL
	J5	Terminal_Screw	GD_Main.SchDoc	Terminal_Screw
	MT1	MT_C3	GD_Main.SchDoc	Terminal_QuickDisc
	MT2	MT_C1	GD_Main.SchDoc	Terminal_QuickDisc
	MT3	MT_B3	GD_Main.SchDoc	Terminal_QuickDisc
	MT4	MT_B1	GD_Main.SchDoc	Terminal_QuickDisc
	MT5	MT_A3	GD_Main.SchDoc	Terminal_QuickDisc
	MT6	MT_A1	GD_Main.SchDoc	Terminal_QuickDisc
	P1	Header 2X2_IPL	GD_Main.SchDoc	HDR2X2_IPL

4. YEŞİL işaretlenmiş komponentler lehimlenecek
5. J1, J2, J4 kodlu konektörler büyüklüklerinden dolayı daha sonra lehimlenecekler.

Converters Sheet

5V Gate Drive Supply				
	U16	LM22672	GD_Converters.SchDoc	8 - Power SOIC
	C27	33u	GD_Converters.SchDoc	1206 Package
	C80	3.3u	GD_Converters.SchDoc	0603 (1608) - cap
	C81	1u	GD_Converters.SchDoc	0603 (1608) - cap
	C83	10n	GD_Converters.SchDoc	0603 (1608) - cap
	C84	39n	GD_Converters.SchDoc	0603 (1608) - cap
	LED7	LED 0603	GD_Converters.SchDoc	603 LED
	LED8	LED 0603	GD_Converters.SchDoc	603 LED
	D6		GD_Converters.SchDoc	SMB
	L2	33u	GD_Converters.SchDoc	Ind 6x6
	R23	3K	GD_Converters.SchDoc	CAP0603
	R26	750R	GD_Converters.SchDoc	CAP0603
	R30	0R	GD_Converters.SchDoc	CAP0603
	R31	20.5K	GD_Converters.SchDoc	CAP0603
	R80	10K	GD_Converters.SchDoc	0603 (1608)
	R85	61.9K	GD_Converters.SchDoc	CAP0603
	TP6	Test Point	GD_Converters.SchDoc	Test Point

5V Measurement Supply				
	U4	LM22672	GD_Converters.SchDoc	8 - Power SOIC
	C5	33u	GD_Converters.SchDoc	1206 Package
	C59	3.3u	GD_Converters.SchDoc	0603 (1608) - cap
	C58	1u	GD_Converters.SchDoc	0603 (1608) - cap
	C61	10n	GD_Converters.SchDoc	0603 (1608) - cap
	C63	39n	GD_Converters.SchDoc	0603 (1608) - cap
	LED6	LED 0603	GD_Converters.SchDoc	603 LED
	D1		GD_Converters.SchDoc	SMB
	L1	33u	GD_Converters.SchDoc	Ind 6x6
	R21	750R	GD_Converters.SchDoc	CAP0603
	R4	0R	GD_Converters.SchDoc	CAP0603
	R7	20.5K	GD_Converters.SchDoc	CAP0603
	R60	10K	GD_Converters.SchDoc	0603 (1608)
	R64	61.9K	GD_Converters.SchDoc	CAP0603

5V to 3V3				
	U7	LM3940	GD_Converters.SchDoc	SOT223
	LED4	LED 0603	GD_Converters.SchDoc	603 LED
	C12	33u	GD_Converters.SchDoc	1206 Package
	C65	3.3u	GD_Converters.SchDoc	0603 (1608) - cap
	R17	220R	GD_Converters.SchDoc	CAP0603
	R12	0R	GD_Converters.SchDoc	CAP0603

3V3 to 1V5				
	U8	Reference Voltage 1.5 / 3	GD_Converters.SchDoc	T-SOT23-5
	R13	0R	GD_Converters.SchDoc	CAP0603
	R15	220R	GD_Converters.SchDoc	CAP0603
	C66	3.3u	GD_Converters.SchDoc	0603 (1608) - cap
	C67	100n	GD_Converters.SchDoc	0603 (1608) - cap
	C68	3.3u	GD_Converters.SchDoc	0603 (1608) - cap
	LED3	LED 0603	GD_Converters.SchDoc	603 LED

P5V to N5V				
	U6	Inverter	GD_Converters.SchDoc	TPS60402
	C7	1u	GD_Converters.SchDoc	0603 (1608) - cap
	C10	1u	GD_Converters.SchDoc	0603 (1608) - cap
	R11	0R	GD_Converters.SchDoc	CAP0603
	R19	750R	GD_Converters.SchDoc	CAP0603
	LED5	LED 0603	GD_Converters.SchDoc	603 LED
	C64	1u	GD_Converters.SchDoc	0603 (1608) - cap

6. TURUNCU işaretli IC komponentler lehimlenecektir.
7. KIRMIZI işaretli TOP LAYER komponentler lehimlenecektir.
8. YEŞİL işaretli BOTTOM LAYER komponentler lehimlenecektir.
9. MAVİ işaretli R30, R4, R13,R11 Test aşamasında lehimlenecektir.

Measurements Sheet

A measurement				
	U18	AMC1301	GD_Measurements.SchDoc	SOIC-8 - DWV
	C91	330p	GD_Measurements.SchDoc	0603 (1608) - cap
	C86	330p	GD_Measurements.SchDoc	0603 (1608) - cap
	R35	20K	GD_Measurements.SchDoc	0603 (1608)
	R37	10K	GD_Measurements.SchDoc	0603 (1608)
	R82	20K	GD_Measurements.SchDoc	0603 (1608)
	R84	10K	GD_Measurements.SchDoc	0603 (1608)
	U17	OPA2196	GD_Measurements.SchDoc	SOIC-8 3.9x4.9
	R86	10R	GD_Measurements.SchDoc	0603 (1608)
	R87	10K	GD_Measurements.SchDoc	0603 (1608)
	R89	10K	GD_Measurements.SchDoc	0603 (1608)
	R90	10K	GD_Measurements.SchDoc	0603 (1608)
	C87	1n	GD_Measurements.SchDoc	0603 (1608) - cap
	D8	BAV99	GD_Measurements.SchDoc	SOT-523
	TP9	Test Point	GD_Measurements.SchDoc	Test Point

B measurement				
	U12	AMC1301	GD_Measurements.SchDoc	SOIC-8 - DWV
	C73	330p	GD_Measurements.SchDoc	0603 (1608) - cap
	C74	1n	GD_Measurements.SchDoc	0603 (1608) - cap
	C75	330p	GD_Measurements.SchDoc	0603 (1608) - cap
	R24	20K	GD_Measurements.SchDoc	0603 (1608)
	R25	10K	GD_Measurements.SchDoc	0603 (1608)
	R69	20K	GD_Measurements.SchDoc	0603 (1608)
	R70	10K	GD_Measurements.SchDoc	0603 (1608)
	R73	10K	GD_Measurements.SchDoc	0603 (1608)
	R74	10K	GD_Measurements.SchDoc	0603 (1608)
	R75	10R	GD_Measurements.SchDoc	0603 (1608)
	R76	10K	GD_Measurements.SchDoc	0603 (1608)
	D4	BAV99	GD_Measurements.SchDoc	SOT-523
	TP5	Test Point	GD_Measurements.SchDoc	Test Point
	U11	OPA2196	GD_Measurements.SchDoc	SOIC-8 3.9x4.9

C measurement				
	U1	AMC1301	GD_Measurements.SchDoc	SOIC-8 - DWV
	C52	330p	GD_Measurements.SchDoc	0603 (1608) - cap
	C53	330p	GD_Measurements.SchDoc	0603 (1608) - cap
	C62	1n	GD_Measurements.SchDoc	0603 (1608) - cap
	R2	20K	GD_Measurements.SchDoc	0603 (1608)
	R3	10K	GD_Measurements.SchDoc	0603 (1608)
	R54	10K	GD_Measurements.SchDoc	0603 (1608)
	R55	20K	GD_Measurements.SchDoc	0603 (1608)
	R57	10K	GD_Measurements.SchDoc	0603 (1608)
	R58	10K	GD_Measurements.SchDoc	0603 (1608)
	R61	10K	GD_Measurements.SchDoc	0603 (1608)
	U2	OPA2196	GD_Measurements.SchDoc	SOIC-8 3.9x4.9
	D2	BAV99	GD_Measurements.SchDoc	SOT-523
	TP2	Test Point	GD_Measurements.SchDoc	Test Point
	R62	10R	GD_Measurements.SchDoc	0603 (1608)

5V ISO Supply				
	U13	NTE0505MC-R	GD_Measurements.SchDoc	NTE0505MC
	C22	10u	GD_Measurements.SchDoc	CAP_CAN_D3
	C28	10u	GD_Measurements.SchDoc	CAP_CAN_D3
	C76	100n	GD_Measurements.SchDoc	0603 (1608) - cap
	C85	100n	GD_Measurements.SchDoc	0603 (1608) - cap
	R77	0R	GD_Measurements.SchDoc	CAP0603
	R36	1.5K	GD_Measurements.SchDoc	CAP0603
	LED10	LED 0603	GD_Measurements.SchDoc	603 LED
	D7	5V1	GD_Measurements.SchDoc	SOD123

10. TURUNCU işaretli IC komponentler lehimlenecektir.
11. KIRMIZI işaretli TOP LAYER komponentler lehimlenecektir.
12. YEŞİL işaretli BOTTOM LAYER komponentler lehimlenecektir.
13. MAVİ işaretli R77 test aşamasında lehimlenecektir.

Driver Sheet

B1				
	C40	10u	GD_Drivers.SchDoc	1206 Package
	C46	10u	GD_Drivers.SchDoc	1206 Package
	C47	33u	GD_Drivers.SchDoc	1206 Package
	C48	10u	GD_Drivers.SchDoc	1206 Package
	R101	1K	GD_Drivers.SchDoc	CAP0603
	R102	1.5K	GD_Drivers.SchDoc	CAP0603
	R103	2.2K	GD_Drivers.SchDoc	0603 (1608)
	R97	0R	GD_Drivers.SchDoc	CAP0603
	LED16	LED 0603	GD_Drivers.SchDoc	603 LED
	D12	6V	GD_Drivers.SchDoc	SOD123
	U23	PES1-S5-S9-M	GD_Drivers.SchDoc	PES1-M Single Output
	C41	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C95	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C99	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C100	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C96	22p	GD_Drivers.SchDoc	0603 (1608) - cap
	R46	100R	GD_Drivers.SchDoc	CAP0603
	R47	0R	GD_Drivers.SchDoc	CAP0603
	R51	10R	GD_Drivers.SchDoc	CAP0603
	R52	2R	GD_Drivers.SchDoc	CAP0603
	R53	10K	GD_Drivers.SchDoc	0603 (1608)
	R96	750R	GD_Drivers.SchDoc	0603 (1608)
	LED14	LED 0603	GD_Drivers.SchDoc	603 LED
	F6	FB 26	GD_Drivers.SchDoc	CIS10P700AC
	U24	SI8271AB-IS	GD_Drivers.SchDoc	SOIC-8
	TP12	Test Point	GD_Drivers.SchDoc	Test Point

IMMD Gate Driver PCB V.1. Dizgi Planı

A2				
	C36	10u	GD_Drivers.SchDoc	1206 Package
	C42	10u	GD_Drivers.SchDoc	1206 Package
	C43	33u	GD_Drivers.SchDoc	1206 Package
	C45	10u	GD_Drivers.SchDoc	1206 Package
	R99	1K	GD_Drivers.SchDoc	CAP0603
	R98	1.5K	GD_Drivers.SchDoc	CAP0603
	R100	2.2K	GD_Drivers.SchDoc	0603 (1608)
	R95	0R	GD_Drivers.SchDoc	CAP0603
	LED15	LED 0603	GD_Drivers.SchDoc	603 LED
	D11	6V	GD_Drivers.SchDoc	SOD123
	U21	PES1-S5-S9-M	GD_Drivers.SchDoc	PES1-M Single Output
	C39	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C93	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C97	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C98	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C94	22p	GD_Drivers.SchDoc	0603 (1608) - cap
	R44	100R	GD_Drivers.SchDoc	CAP0603
	R45	0R	GD_Drivers.SchDoc	CAP0603
	R48	10R	GD_Drivers.SchDoc	CAP0603
	R49	2R	GD_Drivers.SchDoc	CAP0603
	R50	10K	GD_Drivers.SchDoc	0603 (1608)
	F5	FB 26	GD_Drivers.SchDoc	CIS10P700AC
	U22	SI8271AB-IS	GD_Drivers.SchDoc	SOIC-8
	TP10	Test Point	GD_Drivers.SchDoc	Test Point

IMMD Gate Driver PCB V.1. Dizgi Planı

B1				
	C31	10u	GD_Drivers.SchDoc	1206 Package
	C33	10u	GD_Drivers.SchDoc	1206 Package
	C37	33u	GD_Drivers.SchDoc	1206 Package
	C38	10u	GD_Drivers.SchDoc	1206 Package
	R92	1K	GD_Drivers.SchDoc	CAP0603
	R94	1.5K	GD_Drivers.SchDoc	CAP0603
	R93	2.2K	GD_Drivers.SchDoc	0603 (1608)
	R91	0R	GD_Drivers.SchDoc	CAP0603
	LED13	LED 0603	GD_Drivers.SchDoc	603 LED
	D10	6V	GD_Drivers.SchDoc	SOD123
	U20	PES1-S5-S9-M	GD_Drivers.SchDoc	PES1-M Single Output
	C32	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C88	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C90	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C92	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C89	22p	GD_Drivers.SchDoc	0603 (1608) - cap
	R39	100R	GD_Drivers.SchDoc	CAP0603
	R38	0R	GD_Drivers.SchDoc	CAP0603
	R42	10R	GD_Drivers.SchDoc	CAP0603
	R41	2R	GD_Drivers.SchDoc	CAP0603
	R40	10K	GD_Drivers.SchDoc	0603 (1608)
	R88	750R	GD_Drivers.SchDoc	0603 (1608)
	LED11	LED 0603	GD_Drivers.SchDoc	603 LED
	F4	FB 26	GD_Drivers.SchDoc	CIS10P700AC
	U19	SI8271AB-IS	GD_Drivers.SchDoc	SOIC-8
	TP8	Test Point	GD_Drivers.SchDoc	Test Point

IMMD Gate Driver PCB V.1. Dizgi Planı

B2				
	C25	10u	GD_Drivers.SchDoc	1206 Package
	C26	10u	GD_Drivers.SchDoc	1206 Package
	C29	33u	GD_Drivers.SchDoc	1206 Package
	C30	10u	GD_Drivers.SchDoc	1206 Package
	R79	1K	GD_Drivers.SchDoc	CAP0603
	R83	1.5K	GD_Drivers.SchDoc	CAP0603
	R81	2.2K	GD_Drivers.SchDoc	0603 (1608)
	R78	0R	GD_Drivers.SchDoc	CAP0603
	LED12	LED 0603	GD_Drivers.SchDoc	603 LED
	D9	6V	GD_Drivers.SchDoc	SOD123
	U15	PES1-S5-S9-M	GD_Drivers.SchDoc	PES1-M Single Output
	C24	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C77	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C79	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C82	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C78	22p	GD_Drivers.SchDoc	0603 (1608) - cap
	R29	100R	GD_Drivers.SchDoc	CAP0603
	R28	0R	GD_Drivers.SchDoc	CAP0603
	R34	10R	GD_Drivers.SchDoc	CAP0603
	R33	2R	GD_Drivers.SchDoc	CAP0603
	R32	10K	GD_Drivers.SchDoc	0603 (1608)
	F3	FB 26	GD_Drivers.SchDoc	CIS10P700AC
	U14	SI8271AB-IS	GD_Drivers.SchDoc	SOIC-8
	TP7	Test Point	GD_Drivers.SchDoc	Test Point

IMMD Gate Driver PCB V.1. Dizgi Planı

C1				
	C19	10u	GD_Drivers.SchDoc	1206 Package
	C18	10u	GD_Drivers.SchDoc	1206 Package
	C20	33u	GD_Drivers.SchDoc	1206 Package
	C23	10u	GD_Drivers.SchDoc	1206 Package
	R67	1K	GD_Drivers.SchDoc	CAP0603
	R72	1.5K	GD_Drivers.SchDoc	CAP0603
	R71	2.2K	GD_Drivers.SchDoc	0603 (1608)
	R68	0R	GD_Drivers.SchDoc	CAP0603
	LED9	LED 0603	GD_Drivers.SchDoc	603 LED
	D5	6V	GD_Drivers.SchDoc	SOD123
	U10	PES1-S5-S9-M	GD_Drivers.SchDoc	PES1-M Single Output
	C17	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C71	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C70	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C72	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C69	22p	GD_Drivers.SchDoc	0603 (1608) - cap
	R16	100R	GD_Drivers.SchDoc	CAP0603
	R14	0R	GD_Drivers.SchDoc	CAP0603
	R22	10R	GD_Drivers.SchDoc	CAP0603
	R20	2R	GD_Drivers.SchDoc	CAP0603
	R18	10K	GD_Drivers.SchDoc	0603 (1608)
	R66	750R	GD_Drivers.SchDoc	0603 (1608)
	LED2	LED 0603	GD_Drivers.SchDoc	603 LED
	F2	FB 26	GD_Drivers.SchDoc	CIS10P700AC
	U9	SI8271AB-IS	GD_Drivers.SchDoc	SOIC-8
	TP3	Test Point	GD_Drivers.SchDoc	Test Point

C2				
	C4	10u	GD_Drivers.SchDoc	1206 Package
	C2	10u	GD_Drivers.SchDoc	1206 Package
	C6	33u	GD_Drivers.SchDoc	1206 Package
	C11	10u	GD_Drivers.SchDoc	1206 Package
	R56	1K	GD_Drivers.SchDoc	CAP0603
	R65	1.5K	GD_Drivers.SchDoc	CAP0603
	R63	2.2K	GD_Drivers.SchDoc	0603 (1608)
	R59	0R	GD_Drivers.SchDoc	CAP0603
	LED1	LED 0603	GD_Drivers.SchDoc	603 LED
	D3	6V	GD_Drivers.SchDoc	SOD123
	U5	PES1-S5-S9-M	GD_Drivers.SchDoc	PES1-M Single Output
	C54	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C57	100n	GD_Drivers.SchDoc	0603 (1608) - cap
	C55	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C60	1u	GD_Drivers.SchDoc	0603 (1608) - cap
	C56	22p	GD_Drivers.SchDoc	0603 (1608) - cap
	R66	100R	GD_Drivers.SchDoc	CAP0603
	R5	0R	GD_Drivers.SchDoc	CAP0603
	R10	10R	GD_Drivers.SchDoc	CAP0603
	R9	2R	GD_Drivers.SchDoc	CAP0603
	R8	10K	GD_Drivers.SchDoc	0603 (1608)
	F1	FB 26	GD_Drivers.SchDoc	CIS10P700AC
	U3	SI8271AB-IS	GD_Drivers.SchDoc	SOIC-8
	TP1	Test Point	GD_Drivers.SchDoc	Test Point

14. TURUNCU işaretli IC komponentler lehimlenecektir.
15. KIRMIZI işaretli TOP LAYER komponentler lehimlenecektir.
16. YEŞİL işaretli BOTTOM LAYER komponentler lehimlenecektir.
17. Önceden lehimlenmemiş olan Main Sheet'e ait J1, J2 ve J4 & Bridges Sheet'ine ait C50, C34, C8 lehimlenecektir.
18. MAVİ işaretli R97, R47, F6, R95, R45, F5, R91, R38, F4, R78, R28, F3, R68, R14, F2, R59, R5, F1 test aşamasında lehimlenecektir.