

A

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C

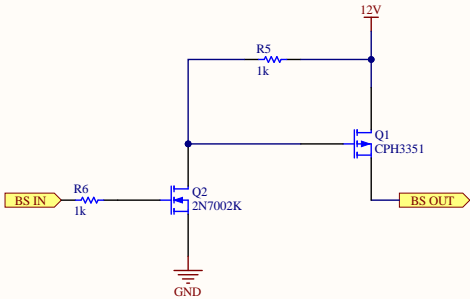
D

A

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Revision History:

Rev	Date	Description

Sheet Title: **TSAL Bootstrap**

Project: **TSAL**

Size: A3

Number: *

Drawn By: Thomas Benedetti

Print Date: 16/07/2020

Print Time: 4:12:51 AM


Version: **00**

Revision: *

Sheet 2 of 2

File Name: TSAL-S02-V00-Bootstrap.SchDoc

QUT Motorsport
O-120, Gardens Point
2 George Street
Brisbane, QLD 4000
Australia





Comment	Description	Designator	Footprint	LibRef	Quantity
4u7 50V	Capacitor, Ceramic, SMD, 4u7, 50V, 5%, X7R, 0603	C1	Cap_Ceramic_0603	4u7 50V 5% X7R 0603	1
10nF 25V 5% X7R 0402	10000pF ±5% 25V Ceramic Capacitor X7R 0402 (1005 Metric)	C2	Cap_Ceramic_1206	10nF 25V 5% X7R 0402	1
56V MM3Z56VB	Zener Diode 56V 200mW ±2% Surface Mount SOD-323F	D1	SOD-323F	MM3Z56VB	1
Microfit 3.0 1x2		J1	Microfit_1X2_R_SMD	Microfit_1x2	1
Microfit 3.0 2x3		J2	Microfit_2X3_R_SMD	Microfit_2x3	1
CPH3351	P-Channel 60V 1.8A (Ta) 1W (Ta) Surface Mount 3-CPH	Q1_U_TSAL-S02-V00-Bootstrap1, Q1_U_TSAL-S02-V00-Bootstrap2, Q1_U_TSAL-S02-V00-Bootstrap3	SOT-23-3	CPH3351	3
2N7002K	N-Channel 60V 300mA (Ta) 350mW (Ta) Surface Mount SOT-23 (TO-236AB)	Q2_U_TSAL-S02-V00-Bootstrap1, Q2_U_TSAL-S02-V00-Bootstrap2, Q2_U_TSAL-S02-V00-Bootstrap3	2N7002K	2N7002K	3
1k	Resistor, SMD, 1k, 0.1W, 5%, 0603	R1	Res_ThinFilm_0603	1k 5% 0603	1
51k	51 kOhms ±0.1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200 Thin Film	R2	Res_ThinFilm_0603	51k 5% 0603	1
220R 5% 1206	220 Ohms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Moisture Resistant Thick Film	R3	Res_ThinFilm_1206	220R 5% 1206	1
1k 5% 0603	Resistor, SMD, 1k, 0.1W, 5%, 0603	R4	Res_ThinFilm_0603	1k 5% 0603	1
1k	1 kOhms ±5% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Moisture Resistant Thick Film	R5_U_TSAL-S02-V00-Bootstrap1, R5_U_TSAL-S02-V00-Bootstrap2, R5_U_TSAL-S02-V00-Bootstrap3, R6_U_TSAL-S02-V00-Bootstrap1, R6_U_TSAL-S02-V00-Bootstrap2, R6_U_TSAL-S02-V00-Bootstrap3	Res_ThinFilm_1206	1k 5% 1206	6
LM555CMX	555 Type, Timer/Oscillator (Single) IC 100kHz 8-SOIC	U1	MCP2561 SOIC	LM555CMX	1
CD4049UB	CD4049UB	U2	SOIC-16	CD4049UB	1
FOD817ASD	Optoisolator 5kV Transistor 4SMD	U3	FOD817ASD	FOD817ASD	1