

Created from sample BOM for Sierra Circuits online BOM pricing system.

Note: If some specific locations of a given ITEM are NOT to be installed, two rows for that item exist, with one marked as DNI. A DNI'd item applies to a whole row.

BOM: DSD

Assembly Part Number/Revision: 001 / 3

Customer / Company Name: Ben Koning / Redwines Garage

Item #	Quantity per board	Manufacturer Part #	Do Not Install	Reference designators	Vendor (optional)	Vendor Part Number (optional)	Value (optional)	Size / Footprint (optional)	Part description/ specs (optional, but recommended)	Manufacturer (optional)
1	6	RNCP1206FTD15R0		R1100,R1101,R1102,R1103,R1104,R1105	Digi-Key	RNCP1206FTD15R0CT-ND	15ohm, 1/2W, 1206, 1%	1206		Stackpole Electronics Inc.
2	6	CRCW08053R00FKEAHP		R1120,R1121,R1122,R1123,R1124,R1125	Digi-Key	541-3.00TCT-ND	3ohm, 1/2W, 0805, 1%, pulse	0805		Vishay Semiconductor
3	13	RNCP0603FTD10K0		R1220,R1240,R1241,R1242,R1243,R1244,R1245,R1246,R1247,R1248,R1249,R1250,R1251	Digi-Key	RNCP0603FTD10K0CT-ND	10Kohm, 1/8W, 1%	0603		Stackpole Electronics Inc.
4	1	RNCP0603FTD332R		R1221	Digi-Key	RNCP0603FTD332RCT-ND	332ohm, 1/8W, 1%	0603		Stackpole Electronics Inc.
5	10	RNCP0603FTD33R2		R1300,R1301,R1302,R1303,R1304,R1305,R1306,R1307,R1308,R1309	Digi-Key	RNCP0603FTD33R2CT-ND	33.2ohm, 1/8W, 1%	0603		Stackpole Electronics Inc.
6	1	RCS080510R0FKEA		R1310	Digi-Key	541-2829-1-ND	10ohm, 0.4W, 1%	0805		Vishay Dale
7	6	RNCP0603FTD2K21		R1500,R1501,R1502,R1503,R1504,R1505	Digi-Key	RNCP0603FTD2K21CT-ND	2.21Kohm, 1/8W, 1%	0603		Stackpole Electronics Inc.
8	7	C0603C104M5RACTU		C1000,C1002,C1003,C1004,C1005,C1006,C1007	Digi-Key	399-7845-1-ND	0.1uF, 50V	0603	0.1µF ±20% 50V Ceramic Capacitor X7R 0603_1608 Metric_	Kemet
9	1	C1206C106M3PACTU		C1001	Digi-Key	399-8153-1-ND	10uf, 25V, ceramic (nonpolar)	1206	CAP CER 10UF ±20% 25V X5R 1206	Kemet
10	1	EEE-FK1A121SR		C1008	Digi-Key	PCE5156CT-ND	120uf, 10v, electrolytic, aluminum (polar)	Radial Can SMD	CAP ALUM 120UF 20% 10V SMD, <7mm h seated	Panasonic
11	1	T494C226M016AT		C1009	Digi-Key	399-3847-1-ND	22uf, 16V, tantalum (polar)		CAP TANT 22UF 20% 16V 2312	Kemet
12	48	VSMB294008G		LED1000,LED1001,LED1002,LED1003,LED1004,LED1005,LED1006,LED1007,LED1010,LED1011,LED1012,LED1013,LED1014,LED1015,LED1016,LED1017,LED1020,LED1021,LED1022,LED1023,LED1024,LED1025,LED1026,LED1027,LED1030,LED1031,LED1032,LED1033,LED1034,LED1035,LED1036,LED1037,LED1040,LED1041,LED1042,LED1043,LED1044,LED1045,LED1046,LED1047,LED1050,LED1051,LED1052,LED1053,LED1054,LED1055,LED1056,LED1057	Digi-Key	VSMB294008GCT-ND	940nm, 100mA/1Apk, 15uS, LED, IR, SMT, 2.3x2.3x2.8mm high speed 940nm 14° total angle clear plastic package	DIO_VSMB294008G	EMITTER IR 940NM 100MA SMD	Vishay Semiconductor
13	1	HSMY-C170		LED1200	Digi-Key	516-1433-1-ND	Yellow, 2.1V, Diffused, Top View	0805	Yellow LED Diffused White Rectangle Flat Top	Broadcom
14	48	QSB363GR		PT1000,PT1001,PT1002,PT1003,PT1004,PT1005,PT1006,PT1007,PT1010,PT1011,PT1012,PT1013,PT1014,PT1015,PT1016,PT1017,PT1020,PT1021,PT1022,PT1023,PT1024,PT1025,PT1026,PT1027,PT1030,PT1031,PT1032,PT1033,PT1034,PT1035,PT1036,PT1037,PT1040,PT1041,PT1042,PT1043,PT1044,PT1045,PT1046,PT1047,PT1050,PT1051,PT1052,PT1053,PT1054,PT1055,PT1056,PT1057	Digi-Key	QSB363GRCT-ND	940nm, 24°, 2mA max		SENSOR PHOTO 940NM TOP VIEW 2SMD	ON Semiconductor
15	1	PIC16F18855-E/SS		U1000	Digi-Key	PIC16F18855-E/SS-ND	8-bit, 24 IO, 14K ROM, 1K RAM, 32MHz	SSOP-28	SOP65P780X200-28N 8-bit Microcontrollers - MCU 8-Bit MCU 14KB Flash 1KB RAM 256B EE CIP	Microchip, Inc.
16	4	QS6J1TR		U1001,U1003,U1004,U1005	Digi-Key	846-QS6J1CT-ND	2 P-Channel (Dual) MOSFET, logic level gate	SOT-457T	215mOhm @ 1.5A, 4.5V 1.25W 20V	Rohm Semiconductor
17	1	SN74LV14APWRG4		U1002	Digi-Key	296-41637-1-ND	Schmitt trigger inverter (Hex), 2V~5.5V	TSSOP-14	IC INVERTER 6CH 6-INP 14TSSOP	Texas Instruments
18	4	QS6K1TR		U1006,U1007,U1008,U1009	Digi-Key	QS6K1CT-ND	2 N-Channel (Dual) MOSFET, logic level gate	SOT-457T	MOSFET 2N-CH 30V 1A TSMT6	Rohm Semiconductor
19	1	TMUX1108PWR		U1010	Digi-Key	296-53256-1-ND	8:1, 4Ohm, 1.08V~5.5V, 12ns, 6ns (Typ), 90MHz	16-TSSOP	IC SWITCH SINGLE 16TSSOP	Texas Instruments
20	1	OPA350UA/2K5		U1011	Digi-Key	296-41366-1-ND	22V/µs, Rail-to-Rail, 38 MHz GB, 40mA output, 2.5V~5.5V@5.2mA	8-SOIC	IC OPAMP GP 1 CIRCUIT 8SOIC	Texas Instruments
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