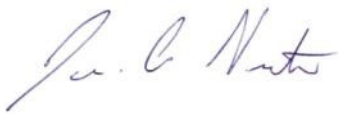


Document: Hardrock-50 Parts List

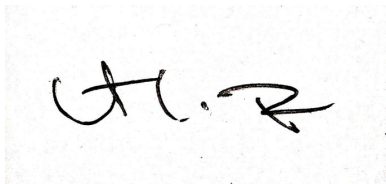
FCC Identifier: RHAHR50

Date: July 16, 2013

The following data is submitted with the application for type acceptance of the HobbyPCB, LLC. Hardrock-50 amplifier, FCC ID RHAHR50. We certify that this information accurately represents the device presented in the application.



James C Veatch



Curtis Pope

ITEM	QTY	REFERENCE DESIGNATOR	DESCRIPTION
1	33	C1,C2,C3,C4,C6,C9,C11,C13,C14,C15,C16,C17,C18,C19,C20,C24,C25,C26,C28,C29,C32,C37,C44,C45,C46,C56,C57,C103,C104,C105,C106,C113,C114	CAPACITOR CER 0.1UF, 100V, X7R, 1206
2	4	C101, C102,C303,C304	CAPACITOR CER 22PF 630V, C0G, 1206
3	2	C12,C30	CAPACITOR CER 68PF 200V, C0G, 1206
4	1	C302	CAPACITOR 1206, X7R, 10V, 470NF
5	2	C34,C35, C301	CAPACITOR CER 1UF, 25V, X7R, 20%, 1206
6	1	C35	CAPACITOR, TANTALUM, 1206, 16V, 1 UF
7	2	C39,C58	CAPACITOR CER 220PF 630V 5% NP0
8	2	C40,C38	CAPACITOR CER 100PF 630V 5% NP0
9	3	C41,C43, C53	CAPACITOR CER 150PF 630V 5% NP0
10	1	C42	CAPACITOR CER 270PF 630V 5% NP0 1206
11	1	C48	CAPACITOR CER 680PF 630V 5% NP0 1206
12	2	C49,C47	CAPACITOR CER 330PF 630V NPO 5% 1206
13	3	C5,C21,C31	CAPACITOR CER 4700PF 200V, X7R, 1206
14	1	C51	CAPACITOR CER 1000PF 630V 5% NP0
15	2	C52,C50	CAPACITOR CER 560PF 630V 5% NP0
16	2	C55,C54	CAPACITOR CER 1800PF 630V 5% NP0 1206
17	2	C59,C60	CAPACITOR CER 3300PF 630V 10% X7R 1206
18	2	C7,C33	CAPACITOR CER 1500PF 200V, NPO, 1206
19	4	C8,C36,C112,C306	CAPACITOR TANT 10UF 16V 10% SMD
20	1	CHASSIS	2 PIECE ALUM EXTR, ENDPLTS, HARDWARE
21	1	CONTROL CABLE	30CM IDC-10 CABLE
22	5	D1,D3,D4,D101, D102	DIODE, 100V 150mA SOD-323
23	1	D105	3MM BI-COLOR LED
24	1	D2	ZENER DIODE, 200mW, 5.1V, SOD-323
25	2	DC POWER CONTACT	POWERPOLE 15AMP CONTACT #16-#20 WIRE
26	1	DC POWER HOUSING	POWERPOLE PP15 BLK/RED HOUSING #1327G6
27	1	DRIVER POWER CONNECTOR	MOLEX 22-01-3037
28	1	DRIVER POWER HEADER	MOLEX 22-23-2031
29	14	FB1,FB2,FB3,FB4,FB5,FB6,FB7,FB8,FB9,FB10,FB11,FB12,FB13, FB301	FERRITE BEAD, SMD, 1kohm, 500mA
30	2	GND,13VDC	1/4" SPADE TERMINAL PCB MOUNT
31	1	IC102	IC, LDO REGULATOR 5.0V 0.8A
32	1	IC301	IC, MCP2200 USB SW, 12MBPS, SSOP-20
33	1	J1	DUAL ROW 20-PIN HEADER RA
34	2	JP101, JP302	DUAL ROW 10 PIN HEADER VERT
35	1	JP102	SINGLE ROW 16 PIN HEADER VERT

36	4	L1,L2,L3,L4	INDUCTOR POWER 0.068UH 1008
37	4	L13,L12,L14,L15	T50-2 CORE WITH #22 ENAMELED WIRE
38	4	L5, T1, T3, T201	CORE TYPE 43 WITH TEFLON WIRE
39	4	L9,L8,L11,L10	T50-6 CORE WITH #22 ENAMELED WIRE
40	1	LCD101	LCD MODULE 2X16 WITH BACKLIGHT
41	1	PCB AMPLIFIER	PCB 2 SIDES 2 OZ. CU
42	1	PCB FRONT PANEL	PCB 2 SIDES 2 OZ. CU
43	1	PCB REAR PANEL	PCB 2 SIDES 2 OZ. CU
44	10	PINS FOR DRIVER CABLING	MOLEX 08-50-0114
45	4	Q1,Q2,Q3,Q4	RD16HHF1 MOSFET RF 16W TO-220
46	1	Q5	TRANSISTOR, NPN, 40V, 200MA, 3-SOT-23
47	2	Q6, Q101	2N7002, MOSFET, 25V, 220mA SOT-23
48	4	R1,R2,R3,R4	RES, 49.9OHM, 500mW, 1%
49	8	R103, R104, R115, R116, R117, R118, R119, R301	RES, 1K OHM, 125mW, 1%
50	2	R11,R10	RES, 470OHM, 1W, 5%, 2512
51	1	R111	TRIMPOT VERT ADJ 10K 1T
52	4	R13,R14,R15,R16	RES, 100OHM, 330mW, 1%, 1210
53	1	R22	RES, 1.5KOHM, 250mW, 1%, 1206
54	10	R5,R7,R17,R18,R19,R20,R21,R23,R112,R113	RES 470 OHM 1/4W 1% 1206
55	11	R6,R12,,R101, R102, R105, R106, R107, R108, R109, R110, R114	RES, 1206, 10KOHM, 125mW, 1%
56	2	R8,R9	RES 100K OHM 1/4W 1% 1206
57	2	RF_IN, RF_OUT CONNECTOR	MOLEX 22-01-3027
58	2	RF_IN, RF_OUT HEADER	MOLEX 22-23-2021
59	1	RLY1	RELAY DPDT 5A 12V COIL
60	14	RLY2,RLY3,RLY4,RLY5,RLY6,RLY7,RLY8,RLY9,RLY10,RLY11,RLY12,RLY13,RLY14,RLY15	RELAY DPDT 2A 12V COIL
61	3	S101, S102, S103	SWITCH, PB, PCB MOUNT
62	1	SW1	SWITCH, ROCKER, SPST, 3A, 250V, BLACK
63	1	T2	T75-43 RF BALUN 16:1
64	1	U1	IC, LDO VOLT REG, 5V, 0.1A, 8-SOIC
65	1	U100	IC, PIC 18F45K22 TQFP 44-PIN
66	1	U2	LM35, IC, TEMP SENSOR, TO-92-3
67	1	U3	IC, RELAY DRIVER, NPN, 8, 50V,
68	2	UHF Panel Connector	RF IN, RF OUT CONNECTOR
69	4	VR1,VR2,VR3,VR4	TRIMPOT VERT ADJ 1K 25T
70	1	X302	9 PIN PCB MOUNT SUB-D
71	1	X303	USB CONNECTOR
72	1	Y301	12MHX CRYSTAL