PowerampC300

Source:	E:/Poweramp/PowerampC300/PowerampC300.sch
Date:	10/16/2020 9:29:01 PM
Tool:	Eeschema 4.0.7
Component Count:	110

Ref	Value
C1	10 uF, 100 V polyproplyene capacitor
C2	470 pF polypropylene or mica capacitor
C3	150 pF mica capacitor
C4	0.1 uF ceramic disc capacitor
C5	0.1 uF ceramic disc capacitor
C6	NC
C7	1000 uF, 10 V electrolytic capacitor
C8	1000 uF, 10 V electrolytic capacitor
C9	150 pF mica capacitor
C10	0.1 uF polypropylene capacitor
C11	0.1 uF polypropylene capacitor
C12	100 uF, 160 V electrolytic capacitor
C13	0.1 uF polypropylene capacitor
C14	100 uF, 160 V electrolytic capacitor
C15	0.1 uF polypropylene capacitor
C16	100 uF, 160 V electrolytic capacitor
C17	100 uF, 160 V electrolytic capacitor
C18	100 uF, 160 V electrolytic capacitor
C19	100 uF, 160 V electrolytic capacitor
C22	47 uF, 25 V electrolytic capacitor
C23	0.1 uF polypropylene capacitor
C24	0.1 uF polypropylene capacitor
C25	SHORT wire
D1	1N4752A, 33 V zener diode
D2	RED LED
D3	1N4148
D4	1N4148
D5	1N4007
D6	1N4007
D7	1N4755A, 44 V zener diode (optional)
D8	1N4755A, 44 V zener diode (optional)
D9	1N4755A, 44 V zener diode (optional)
D10	1N4755A, 44 V zener diode (optional)
J1	2 Position Terminal Block
J2	2 Position Terminal Block
J3	2 Position Terminal Block
J8	2 Position Terminal Block
J9	SMA straight PCB connector
JP1	2 pin header, 2.54 mm spacing
JP2	2 pin header, 2.54 mm spacing
L1	1 uH inductor, 15 turns around a 20 mm form
Q1	2N5551
Q2	2N5551
Q3	2N5401

Q4	2N5401
Q5	2N5551
Q6	2N5551
Q7	2N5551
Q8	2N5401
Q10	MJE15033
Q11	MJE15032
Q12	MJE15032
Q13	2N5551
Q14	2N5401
Q15	MJE15032
Q16	MJE15033
Q17	MJL3281A
Q18	MJL1302A
Q19	MJL3281A
Q20	MJL1302A
Q21	MJL3281A
Q22	MJL1302A
Q23	MJL3281A
Q24	MJL1302A
R1	1k ¼ watt
R2	10k ¼ watt
R3	180R ¼ watt
R4	180R ¼ watt
R5	1k ¼ watt
R6	100R ¼ watt
R7	100R ¼ watt
R8	56R ¼ watt
R9	56R ¼ watt
R10	100R 10 pin 3296W type trimmer potentiometer
R11	6k8 3 watt
R12	200R ¼ watt
R13	5k6 3 watt
R14	10k ¼ watt
R15	330R ¼ watt
R16	6k8 1 watt
R17	1k ¼ watt
R18	NC
R19	33R 1 watt
R21	390R ¼ watt
R22	200R 10 pin 3296W type trimmer potentiometer
R23	100R ¼ watt
R24	56R ¼ watt
R25	3k3 3 watt
R26	33R ¼ watt
R27	33R ¼ watt
R28	3k3 3 watt
R29	120R ¼ watt
R30	120R ¼ watt

R31	33R 3 watt
R32	33R 3 watt
R33	0R39 5 watt sandblock resistor
R34	0R39 5 watt sandblock resistor
R35	0R39 5 watt sandblock resistor
R36	0R39 5 watt sandblock resistor
R37	0R39 5 watt sandblock resistor
R38	0R39 5 watt sandblock resistor
R39	0R39 5 watt sandblock resistor
R40	0R39 5 watt sandblock resistor
R41	4R7 3 watt
R42	4R7 3 watt
R43	10k 3 watt

NP0/C0G ceramic capacitors may be subsituted for m