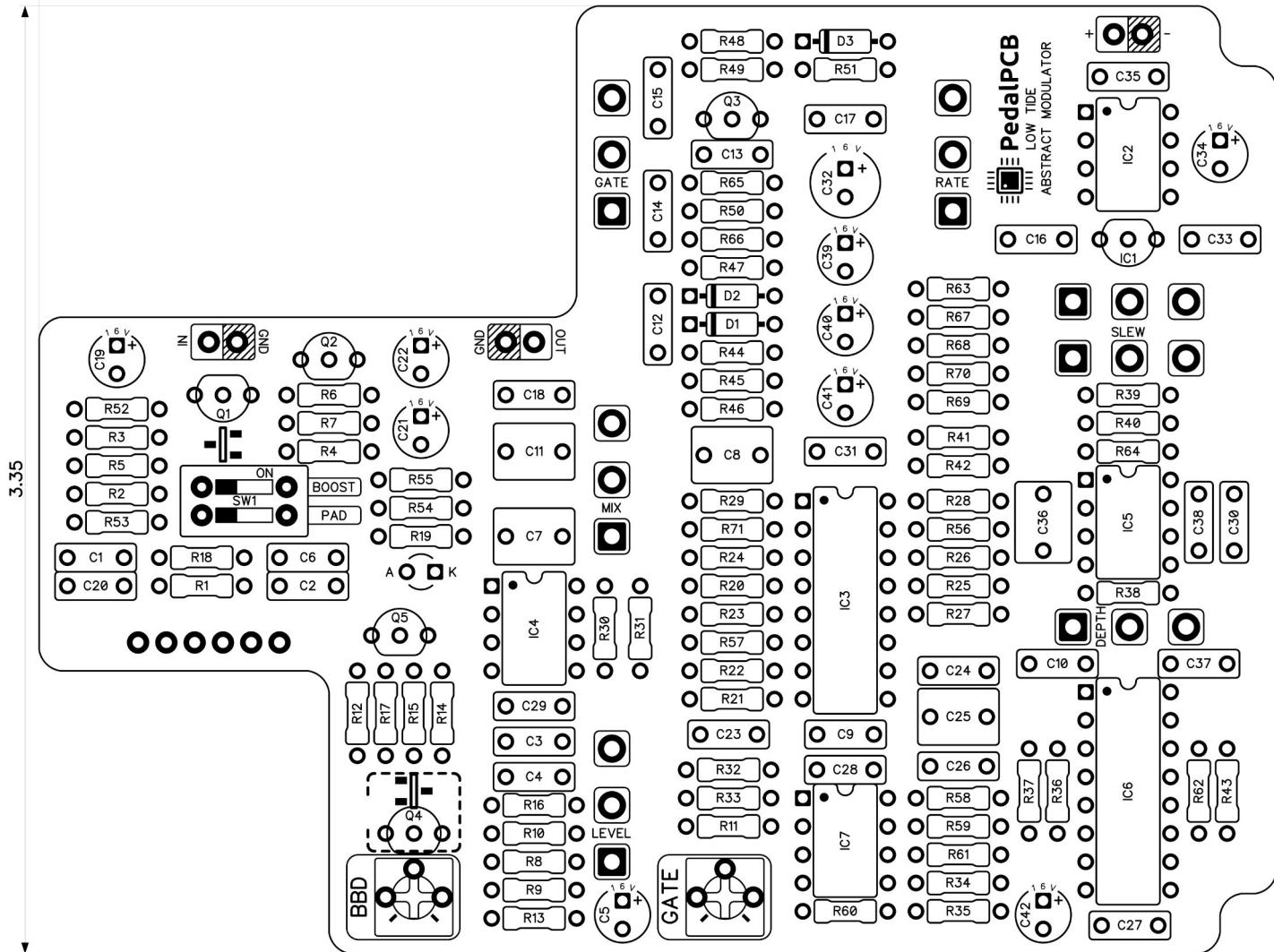




Low Tide Modulator

Revised 4/17/22

4.375



CONTROLS AND FEATURES

- Rate
- Slew
- Depth
- Gate
- Mix
- Level
- BBD Bias (Internal Trim Pot)
- Gate Frequency (Internal Trim Pot)

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Low Tide Modulator

Parts List (Page 1 of 3)

LOCATION	VALUE	TYPE	NOTES
R1	2M	Resistor, 1/4W	
R2	100K	Resistor, 1/4W	
R3	2K2	Resistor, 1/4W	
R4	10K	Resistor, 1/4W	
R5	2M	Resistor, 1/4W	
R6	3K3	Resistor, 1/4W	
R7	1K8	Resistor, 1/4W	
R8	100K	Resistor, 1/4W	
R9	12K	Resistor, 1/4W	
R10	68K	Resistor, 1/4W	
R11	16K	Resistor, 1/4W	
R12	3K3	Resistor, 1/4W	
R13	1K	Resistor, 1/4W	
R14	1K	Resistor, 1/4W	
R15	16K	Resistor, 1/4W	
R16	100K	Resistor, 1/4W	
R17	2K2	Resistor, 1/4W	
R18	1K	Resistor, 1/4W	
R19	220K	Resistor, 1/4W	
R20	100K	Resistor, 1/4W	
R21	100K	Resistor, 1/4W	
R22	10K	Resistor, 1/4W	
R23	10K	Resistor, 1/4W	
R24	10K	Resistor, 1/4W	
R25	10K	Resistor, 1/4W	
R26	10K	Resistor, 1/4W	
R27	100K	Resistor, 1/4W	
R28	1K	Resistor, 1/4W	
R29	2K2	Resistor, 1/4W	
R30	1M	Resistor, 1/4W	
R31	470K	Resistor, 1/4W	
R32	1K	Resistor, 1/4W	
R33	3K3	Resistor, 1/4W	
R34	330R	Resistor, 1/4W	
R35	4K7	Resistor, 1/4W	
R36	3K3	Resistor, 1/4W	
R37	1K8	Resistor, 1/4W	
R38	10K	Resistor, 1/4W	
R39	470K	Resistor, 1/4W	
R40	220K	Resistor, 1/4W	
R41	9K1	Resistor, 1/4W	
R42	6K8	Resistor, 1/4W	
R43	100K	Resistor, 1/4W	
R44	4K7	Resistor, 1/4W	
R45	100K	Resistor, 1/4W	
R46	4K7	Resistor, 1/4W	
R47	10K	Resistor, 1/4W	
R48	620K	Resistor, 1/4W	

Low Tide Modulator

Parts List (Page 2 of 3)

LOCATION	VALUE	TYPE	NOTES
R49	1M	Resistor, 1/4W	
R50	4K7	Resistor, 1/4W	
R51	470K	Resistor, 1/4W	
R52	1K	Resistor, 1/4W	
R53	100K	Resistor, 1/4W	
R54	2K2	Resistor, 1/4W	
R55	4K7	Resistor, 1/4W	
R56	100K	Resistor, 1/4W	
R57	10K	Resistor, 1/4W	
R58	10K	Resistor, 1/4W	
R59	10K	Resistor, 1/4W	
R60	100K	Resistor, 1/4W	
R61	100K	Resistor, 1/4W	
R62	10K	Resistor, 1/4W	
R63	3K3	Resistor, 1/4W	
R64	220K	Resistor, 1/4W	
R65	4K7	Resistor, 1/4W	
R66	10K	Resistor, 1/4W	
R67	2K2	Resistor, 1/4W	
R68	2K2	Resistor, 1/4W	
R69	2K2	Resistor, 1/4W	
R70	2K2	Resistor, 1/4W	
R71	100K	Resistor, 1/4W	
C1	47n	Film capacitor, 7.2 x 2.5mm	
C2	100n	Film capacitor, 7.2 x 2.5mm	
C3	1n	Film capacitor, 7.2 x 2.5mm	
C4	220p	Ceramic capacitor	
C5	22u	Electrolytic capacitor, 5mm	
C6	100n	Film capacitor, 7.2 x 2.5mm	
C7	1u	Film capacitor, 7.2 x 5.0mm	
C8	1u	Film capacitor, 7.2 x 5.0mm	
C9	1n	Film capacitor, 7.2 x 2.5mm	
C10	100n	Film capacitor, 7.2 x 2.5mm	
C11	1u	Film capacitor, 7.2 x 5.0mm	
C12	100n	Film capacitor, 7.2 x 2.5mm	
C13	100p	Ceramic capacitor	
C14	100n	Film capacitor, 7.2 x 2.5mm	
C15	1n	Film capacitor, 7.2 x 2.5mm	
C16	100n	Film capacitor, 7.2 x 2.5mm	
C17	100n	Film capacitor, 7.2 x 2.5mm	
C18	10n	Film capacitor, 7.2 x 2.5mm	
C19	22u	Electrolytic capacitor, 5mm	
C20	680p	Ceramic capacitor	
C21	22u	Electrolytic capacitor, 5mm	
C22	22u	Electrolytic capacitor, 5mm	
C23	1n	Film capacitor, 7.2 x 2.5mm	
C24	4n7	Film capacitor, 7.2 x 2.5mm	

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Parts List (Page 3 of 3)

LOCATION	VALUE	TYPE	NOTES
C25	1u	Film capacitor, 7.2 x 5.0mm	
C26	1n	Film capacitor, 7.2 x 2.5mm	
C27	220p	Ceramic capacitor	
C28	100n	Film capacitor, 7.2 x 2.5mm	
C29	100n	Film capacitor, 7.2 x 2.5mm	
C30	100n	Film capacitor, 7.2 x 2.5mm	
C31	100n	Film capacitor, 7.2 x 2.5mm	
C32	220u	Electrolytic capacitor, 5mm	
C33	100n	Film capacitor, 7.2 x 2.5mm	
C34	22u	Electrolytic capacitor, 5mm	
C35	100n	Film capacitor, 7.2 x 2.5mm	
C36	1u	Film capacitor, 7.2 x 5.0mm	
C37	10n	Film capacitor, 7.2 x 2.5mm	
C38	100n	Film capacitor, 7.2 x 2.5mm	
C39	22u	Electrolytic capacitor, 5mm	
C40	22u	Electrolytic capacitor, 5mm	
C41	22u	Electrolytic capacitor, 5mm	
C42	22u	Electrolytic capacitor, 5mm	
D1	BAT48	Schottky diode, DO-35	
D2	BAT48	Schottky diode, DO-35	
D3	BAT48	Schottky diode, DO-35	
Q1	2SK208-Y	JFET transistor, N-channel	
Q2	2N3904	BJT transistor, NPN TO-92	
Q3	2N3904	BJT transistor, NPN TO-92	
Q4	J201	JFET transistor, N-channel	
Q5	2N3904	BJT transistor, NPN TO-92	
IC1	LM78L05	+5V positive voltage regulator	
IC2	RANDOMIZER	Random LFO microcontroller	<i>Included with PCB</i>
IC3	LM13700N	Dual OTA op-amp, DIP16	
IC4	LM258P	Dual op-amp, DIP8	
IC5	MCP602	Dual op-amp, DIP8	
IC6	CD4046BE	Phase Locked Loop IC, DIP16	
IC7	V3207D	BBG delay IC, DIP8	
SW1	DIP-2	DIP switch (2 position), DIP4	
TRIM1	1K	Trim potentiometer, 3362P type	
TRIM2	1K	Trim potentiometer, 3362P type	
RATE	B10K	16mm right-angle PCB mount pot	
SLEW	A1M DUAL	16mm right-angle PCB mount pot	<i>*Dual-gang potentiometer</i>
DEPTH	A100K	16mm right-angle PCB mount pot	
GATE	A100K	16mm right-angle PCB mount pot	
MIX	B100K	16mm right-angle PCB mount pot	
VOLUME	A100K	16mm right-angle PCB mount pot	



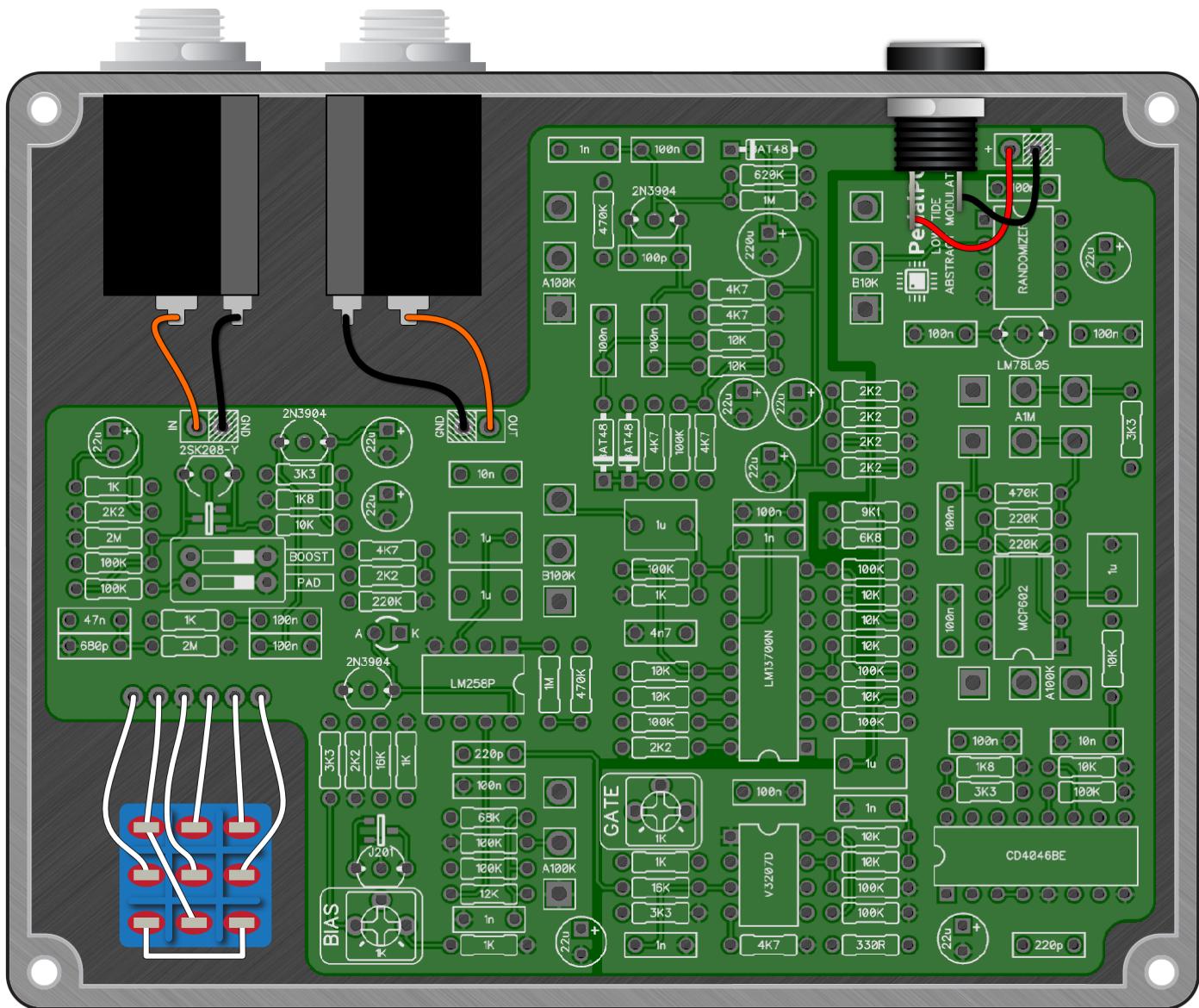
Low Tide Modulator

Schematic Diagram

Schematic Coming Soon

Low Tide Modulator

Wiring Diagram





Low Tide Modulator

Drill Template
1590BB Enclosure

