

Revision 0.3 · August 21, 2026



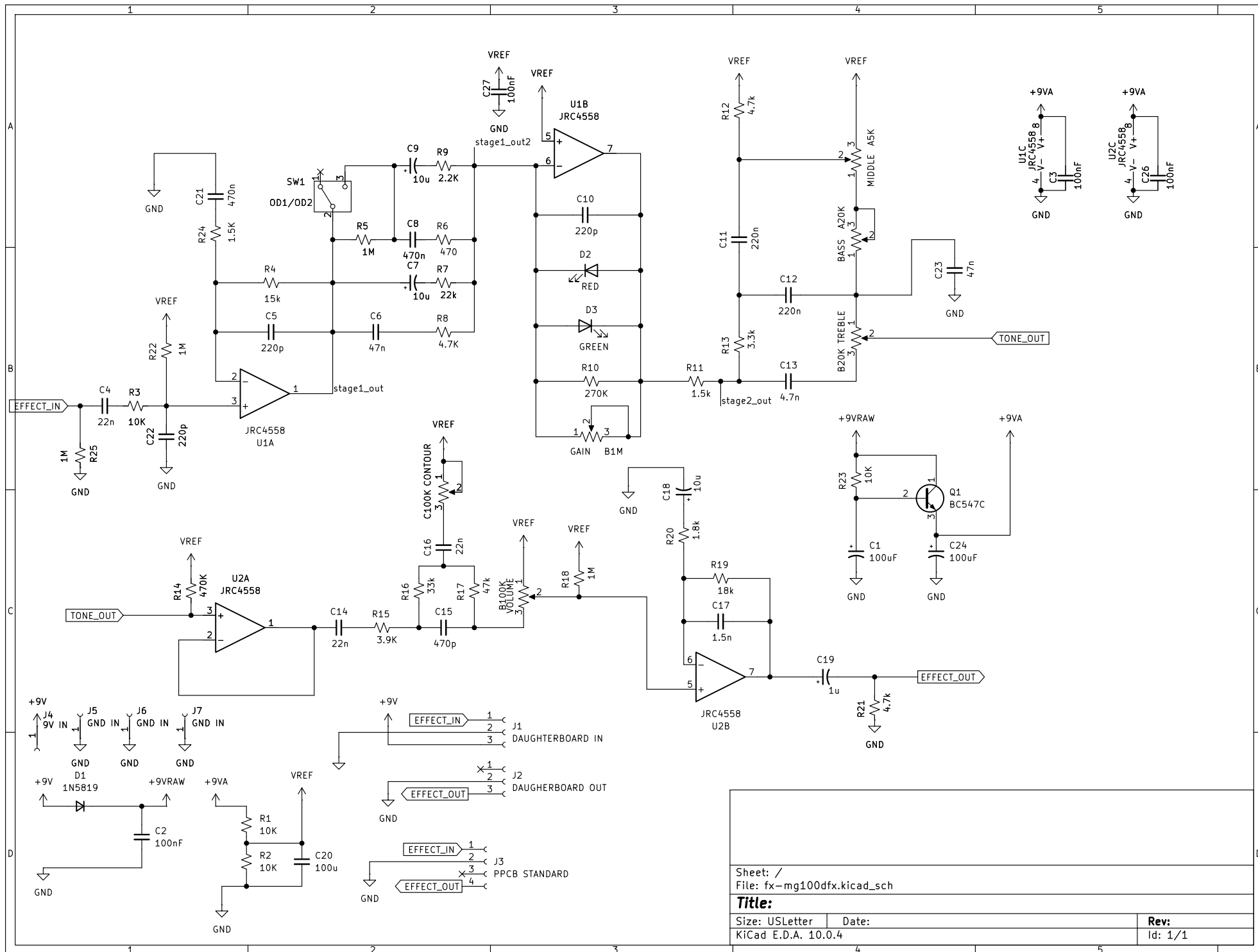
fx-mg100dfx

Parts List

LOCATION	VALUE	TYPE	NOTES
C1	100uF	Electrolytic Bulk Capacitor	25V min, 35V better - Base cap for multiplier
C2	100nF	Unpolarized capacitor, small symbol - X7R MLCC	
C3	100nF	Unpolarized capacitor, small symbol - X7R MLCC	
C4	22n	Unpolarized capacitor, small symbol	
C5	220p	Capacitor	
C6	47n	Unpolarized capacitor, small symbol	
C7	10u	Capacitor	
C8	470n	Unpolarized capacitor, small symbol	
C9	10u	Capacitor	
C10	220p	Capacitor	
C11	220n	Unpolarized capacitor, small symbol	
C12	220n	Unpolarized capacitor, small symbol	
C13	4.7n	Unpolarized capacitor, small symbol	
C14	22n	Unpolarized capacitor, small symbol	
C15	470p	Capacitor	
C16	22n	Unpolarized capacitor, small symbol	
C17	1.5n	Unpolarized capacitor, small symbol	
C18	10u	Capacitor	
C19	1u	Capacitor	
C20	100u	Electrolytic Bulk Capacitor	25V min, 35V better
C21	470n	Capacitor	
C22	220p	Capacitor	
C23	47n	Unpolarized capacitor, small symbol	
C24	100uF	Electrolytic Bulk Capacitor	25V min, 35V better
C26	100nF	Unpolarized capacitor, small symbol - X7R MLCC	
C27	100nF	Unpolarized capacitor, small symbol - X7R MLCC	
D1	1N5819	Diode	
D2	RED	Light emitting diode	
D3	GREEN	Light emitting diode	

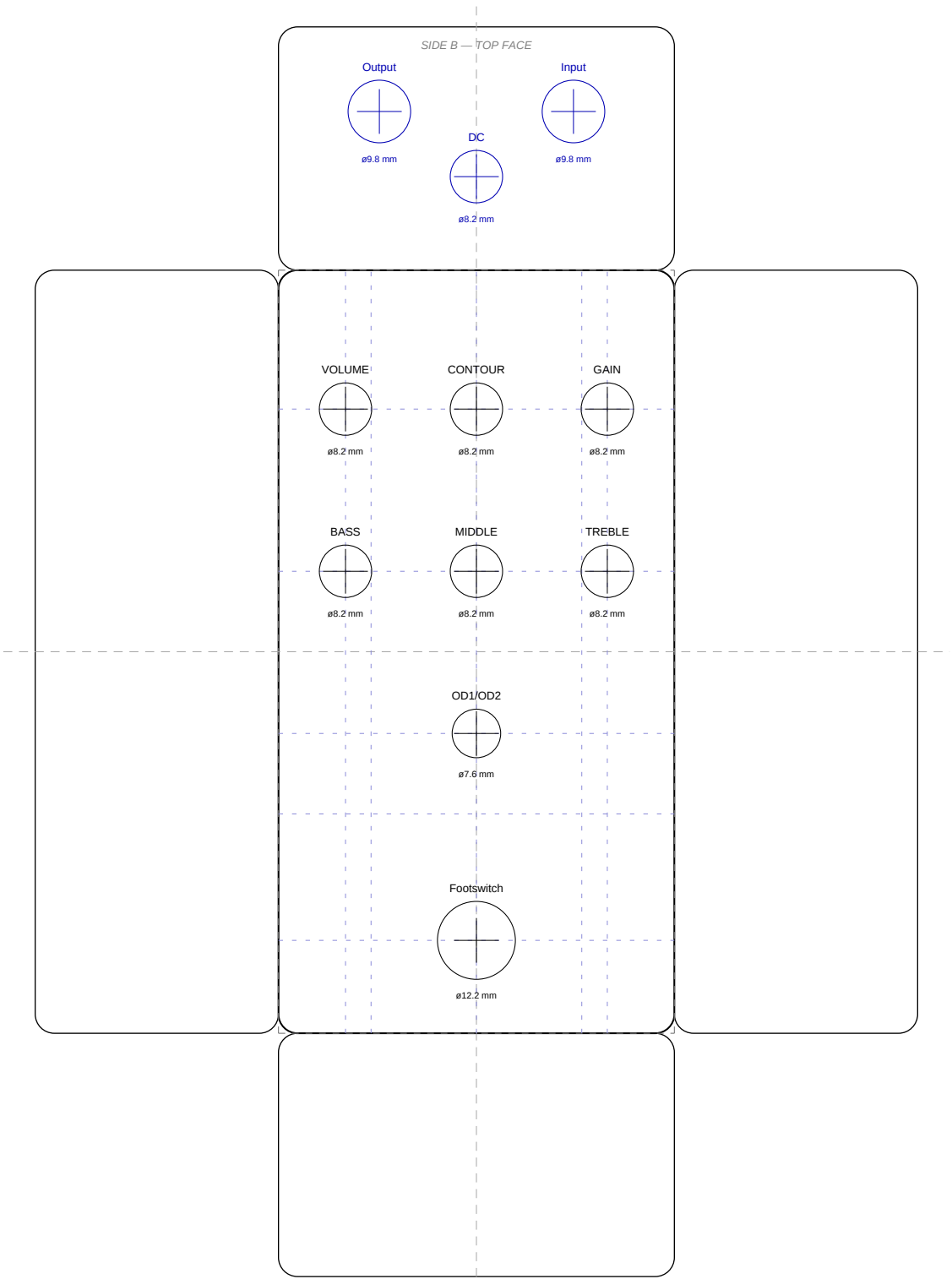
LOCATION	VALUE	TYPE	NOTES
J1	DAUGHTERBOARD IN	Generic connector, single row, 01x03, script generated	
J2	DAUGHTERBOARD OUT	Generic connector, single row, 01x03, script generated	
J3	PPCB STANDARD	Generic connector, single row, 01x04, script generated	
J4	9V IN	Generic connector, single row, 01x01, script generated	
J5	GND IN	Generic connector, single row, 01x01, script generated	
J6	GND IN	Generic connector, single row, 01x01, script generated	
J7	GND IN	Generic connector, single row, 01x01, script generated	
Q1	BC547C	0.1A Ic, 45V Vce, Small Signal NPN Transistor, TO-92	
R1	10K	Resistor, small US symbol	
R2	10K	Resistor, small US symbol	
R3	10K	Resistor, small US symbol	
R4	15k	Resistor, small US symbol	
R5	1M	Resistor, small US symbol	
R6	470	Resistor, small US symbol	
R7	22k	Resistor, small US symbol	
R8	4.7K	Resistor, small US symbol	
R9	2.2K	Resistor, small US symbol	
R10	270K	Resistor, small US symbol	
R11	1.5k	Resistor, small US symbol	
R12	4.7k	Resistor, small US symbol	
R13	3.3k	Resistor, small US symbol	
R14	470K	Resistor, small US symbol	
R15	3.9K	Resistor, small US symbol	
R16	33k	Resistor, small US symbol	
R17	47k	Resistor, small US symbol	
R18	1M	Resistor, small US symbol	
R19	18k	Resistor, small US symbol	
R20	1.8k	Resistor, small US symbol	
R21	4.7k	Resistor, small US symbol	
R22	1M	Resistor, small US symbol	

LOCATION	VALUE	TYPE	NOTES
R23	10K	Resistor, small US symbol	Cap Multiplier Base (See Note)
R24	1.5K	Resistor, small US symbol	
R25	1M	Resistor, small US symbol	
U1	JRC4558	Dual Low-Noise Operational Amplifiers, DIP-8/SOIC-8	
U2	JRC4558	Dual Low-Noise Operational Amplifiers, DIP-8/SOIC-8	
BASS	A20K	Potentiometer, US symbol	
CONTOUR	C100K	Potentiometer, US symbol	
GAIN	B1M	Potentiometer, US symbol	
MIDDLE	A5K	Potentiometer, US symbol	
OD1/OD2	ON-ON	Switch, single pole double throw	
TREBLE	B20K	Potentiometer, US symbol	
VOLUME	B100K	Potentiometer, US symbol	



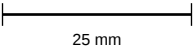
fx-mg100dfx — Enclosure Drilling Template

125B (62×120 mm) enclosure



PRINT AT 100% — DO NOT SCALE

macOS: Print → Scale: 100% • Verify scale bar below measures exactly 25 mm before drilling



fx-mg100dfx

Tayda Drill Manifest — 125B (62×120 mm)

X/Y are mm from the centre of each face (positive Y = toward front). Side A = front face. Side B = top face. Side C = left face (rotated -R enclosures).

SIDE	DIAMETER (mm)	X (mm)	Y (mm)	LABEL
A	8.2	-20.5	38.0	VOLUME
A	8.2	0.0	38.0	CONTOUR
A	8.2	20.5	38.0	GAIN
A	8.2	-20.5	12.6	BASS
A	8.2	0.0	12.6	MIDDLE
A	8.2	20.5	12.6	TREBLE
A	7.6	0.0	-12.8	OD1/OD2
A	12.2	0.0	-45.2	Footswitch
B	8.2	0.0	4.4	DC
B	9.8	-15.2	-5.8	Output
B	9.8	15.2	-5.8	Input