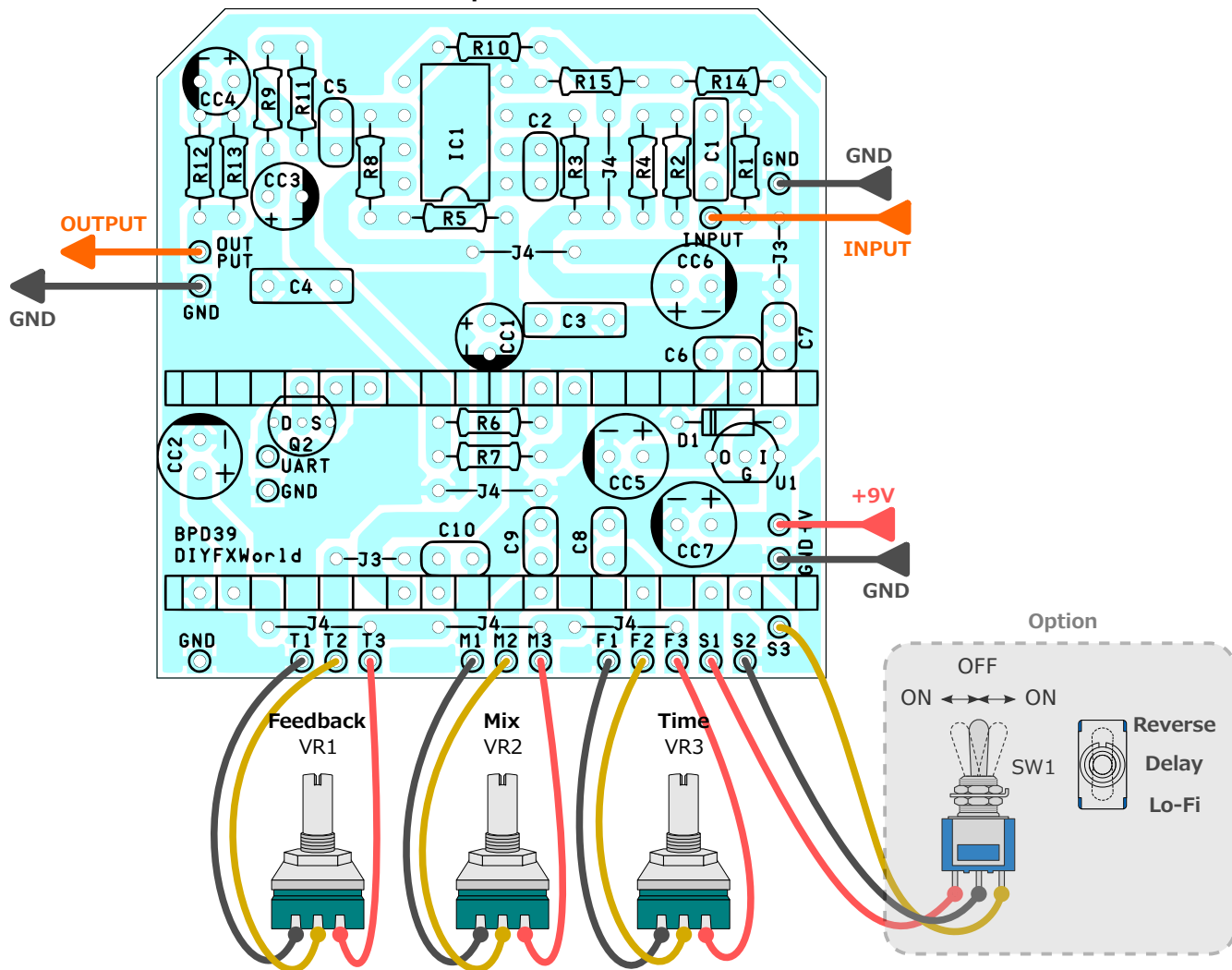


Top View



Capacitor

C1 0.1u Film
C2 4.7p Ceramic
C3 0.22u Film
C4 0.01u Film
C5 47p Ceramic
C6 0.1u Multilayer Ceramic
C7 0.1u Multilayer Ceramic
C8 0.1u Multilayer Ceramic
C9 0.1u Multilayer Ceramic
C10 0.1u Multilayer Ceramic

CC1 10u Chemical 10u
CC2 100u Polymer 100u
CC3 10u Chemical 10u
CC4 10u Chemical 10u
CC5 100u Polymer 100u
CC6 100u Polymer 100u
CC7 100u Polymer 100u

MOS-FET

Q2 2N7000 (Option)

*If you need communication function.

Resistor

R1 470k 1/4W
R2 200k 1/4W
R3 150k 1/4W
R4 470k 1/4W
R5 47Ω 1/4W
R6 1M(1%) 1/4W
R7 3.9k(1%) 1/4W
R8 47k 1/4W
R9 47k 1/4W
R10 10k 1/4W
R11 22k 1/4W
R12 1k 1/4W
R13 47k 1/4W
R14 1k 1/4W
R15 1k 1/4W

Jumper
J3, J4

Diode

D1 1N4007

Opamp

IC1 Dual Opamp

Switch

SW1 Toggle Switch 3P ON-OFF-ON

Voltage Regulator

U1 78L05 5V/100mA TO-92

Potentiometer

VR1 10kΩ
VR2 10kΩ
VR3 10kΩ

Pin socket
20P x2