Latest design files: github.com/Atarity/totoro-synth

Original schematic: syntherjack.net/totoro-1-ic-simple-synth/

OSC2

VCF

D1
1N4148DO35-7

RANGE
SQR
TRI_SAW
C1
10n
C2
100n
RANGE
SEQ_WAVE
TRI_SAW

WAVE

SEQ_WAVE
WAVE

M7

MOD   VCC

M8
M9
GND

C4   C5
22n   22n
R18
100k
T1
BC546A
VSS
RES
C6
1n
RES

R19
10k
CUT
100k(B)
M10
VSS

R3
1k

O2FRQ
100k(B)

R2
100k

R1
1k

GND

IC1B
MCP6004
GND

270k
R5
100k
R4
IC1C
MCP6004
GND

100k
R6

M1
SQR
R7
100k
GND

R13
100k
R14
10k

BAL
100k(B)
GND

R17
100k

R15
100k
R16
100k

IC1D
MCP6004
GND

C7   1uF

OLVL
100k(A)

AUDIO_JACK_3.5MMDCI

J1
GND

OSC1

M2
100k
R9

100k
R8
C3
100n

M5   M6

M3

O1FRQ1
100k(B)
O1FRQ2
100k(B)
O1FRQ3
100k(B)

R10
10k
R11
10k
R12
10k

G1   G2   G3

M4

IC1A
MCP6004

GND

MOD points:
— M1—2 — generator "sync"
— M3—4 — keyboard expander
— M4 — OSC1 output
— M5—6 — OSC1 range
— M7 — OSC2 output
— M8—9 — filter input
— M10 — filter CV input

POWER

V+

BATT1
GND
BATT2

V—

POW

POW

VCC
R20
470
GND
LED1
3mm, bright!
VSS

TITLE: **Totoro** V1.0.1 (2023—12—18)

Document Number: REV:

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