Galactic Unicorn (Pico W Aboard) (PIM631)

**Switches**
- SW_STANDBY
- SW_REDUCE_VOLUME
- SW_INCREASE_VOLUME
- SW_REDUCE_BRIGHT
- SW_INCREASE_BRIGHT
- SW
- SWC
- SWB
- SWA
- SW_RESET

**Power distribution**
- VBUS
- VBAT
- VCC
- VSYS

**D1** typ reverse current at 4V at 50C: 100uA

**Battery connector**
- VBAT

**D1 typ reverse current at 4V at 50C: 100uA**

**R7** ensures that Q12 stays on even with the leakage current from D1.

**Diagrams**
- **Pi Pico**
- **Pullups**
- **Power distribution**
- **Battery connector**
- **Switches**

**Notes**
- SWA
- SWB
- SWC
- SWD
- SW_RESET

**Dimensions**
- 842.0x595.0
At 5V:
R4 DNP -> Gain 9dB
R4 = 0ohm -> Gain 6dB
R4 = 100k -> Gain 3dB
(Gain values of 12dB and 15dB would require a resistor to GND)

At 5V:
R5 = 1M -> mix both channels
R5 = 0ohm -> left channel
R5 = 370k -> right channel

Audio DAC+amp

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MAX98357AETE+T

SD_MODE

4

BCLK

16

LRCLK

14

DIN

1

OUTP

9

OUTN

10

VDD

7*2

GND

3*3

GAIN

2

THERMAL

THERMAL

---

U11

---

VCC

1

Ground

3

1uF

620k

---

I2S_BCLK

I2S_LRCLK

I2S_DATA

---

MUTE

---

MT1

MT2

---

I2S_BCLK

I2S_DATA

I2S_LRCLK

---

SPEAKER_P

SPEAKER_M

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3.2W I2S Mono Amp

VDD: 2.5-5.5V

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MAX98357AETE+T

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J1

1

2

SPEAKER_P

SPEAKER_M

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PIMORONI

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SHEET: 4/4