

GNSS – LG290P

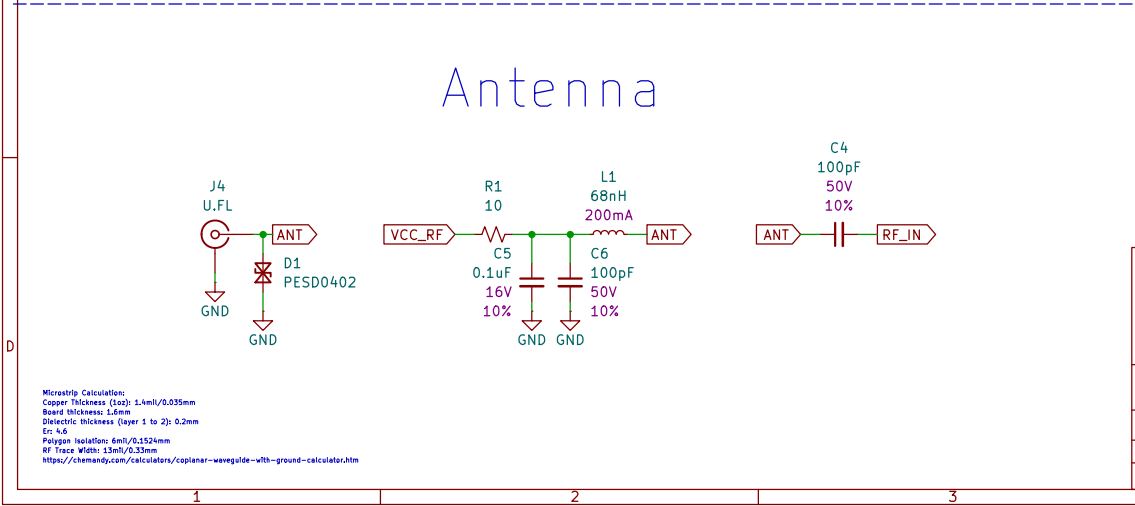
The diagram illustrates the power and signal connections for the LG290P GNSS module. It includes three capacitors (C1, C2, C3) and the module's pinout.

Capacitors:

- C1: 22uF, 6.3V, 20%, connected between 3.3V and GND.
- C2: 2.2uF, 10V, 10%, connected between 3.3V and GND.
- C3: 0.1uF, 6.3V, 10%, connected between 3.3V and GND.

Module Pinout (U1 LG290P):

Pin	Signal	Pin	Signal
23	VCC	20	TXD1
22	V_BCKP	21	RXD1
8	RESET	6	TXD2
11	RF_IN	7	RXD2
9	VCC_RF	16	TXD3
10	GND	15	RXD3
		19	SCL
		18	SDA
		14	RTK_LED
		3	PPS1
		4	EVENTA



Connectors

The diagram illustrates the pin configurations for two 20-pin connectors, J1 and J3, which are part of the Open Source Hardware (OSHW) project.

J1 Conn_02x10: This connector has 20 pins. The pin configurations are as follows:

- Pin 1: 3V3
- Pin 2: PPS1
- Pin 3: GND
- Pin 4: PPS2
- Pin 5: VBACKUP
- Pin 6: EVENTA
- Pin 7: RTK_LED
- Pin 8: EVENTB
- Pin 9: PVT_LED
- Pin 10: SD_CMD
- Pin 11: I2C_SDA
- Pin 12: SD_CLK
- Pin 13: I2C_SCL
- Pin 14: SD_DAT0
- Pin 15: USB_D-
- Pin 16: SD_DAT3
- Pin 17: USB_D+
- Pin 18: GND
- Pin 19: VUSB
- Pin 20: 3V3

J3 Conn_02x10: This connector has 20 pins. The pin configurations are as follows:

- Pin 1: 3V3
- Pin 2: ID
- Pin 3: GND
- Pin 4: CTS3
- Pin 5: TXD3
- Pin 6: RXD3
- Pin 7: CTS2
- Pin 8: TXD2
- Pin 9: RTS2
- Pin 10: RXD2
- Pin 11: TXD4
- Pin 12: CTS1
- Pin 13: RXD4
- Pin 14: RESET
- Pin 15: TXD1
- Pin 16: GND
- Pin 17: RTS1
- Pin 18: 3V3
- Pin 19: RXD1
- Pin 20: GND

External connections for J3 include:

- Pin 1: 3.3V
- Pin 2: ID
- Pin 3: GND
- Pin 4: CTS3
- Pin 5: TXD3
- Pin 6: RXD3
- Pin 7: CTS2
- Pin 8: TXD2
- Pin 9: RTS2
- Pin 10: RXD2
- Pin 11: TXD4
- Pin 12: CTS1
- Pin 13: RXD4
- Pin 14: RESET
- Pin 15: TXD1
- Pin 16: GND
- Pin 17: RTS1
- Pin 18: 3V3
- Pin 19: RXD1
- Pin 20: GND

Resistor values are specified for J3:

- R3: 3.3k
- R4: 10k

The diagram also shows the connection of the 3V3 pins to the 3.3V supply and the GND pins to the ground.

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