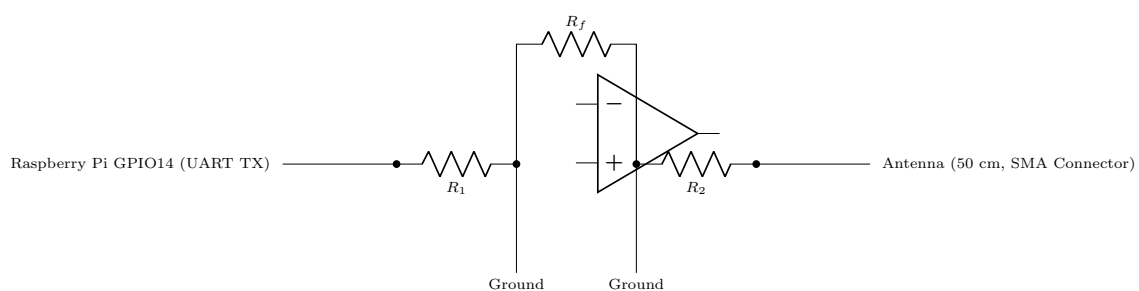


Active Attenuator Schematic



Schematic Legend

| Symbol | Description |
|-----------|--------------------------------|
| pi | Raspberry Pi GPIO14 (UART TX) |
| res1 | Input Resistor (R1) |
| opamp_in | Operational Amplifier Input |
| opamp_out | Operational Amplifier Output |
| res2 | Output Resistor (R2) |
| ant | Antenna (50 cm, SMA Connector) |
| gnd1 | Ground (for input side) |
| gnd2 | Ground (for output side) |

Component Values

| Symbol | Description | Value/Formulas |
|--------|-------------------|---|
| R_1 | Input Resistor | 1 k Ω |
| R_2 | Output Resistor | 1 k Ω |
| R_f | Feedback Resistor | 31.6 k Ω for 30 dB, 100 k Ω for 40 dB |