

External Attenuator and PTT for the PreciseRF TTG1 2-Tone Generator Phil Salas – AD5X

The PreciseRF TTG1 is a well-built and easy to use 2-tone generator that is perfect for making IMD tests on transceivers and amplifiers. However, while the audio output level of the TTG1 is appropriate for feeding the line-input on a transceiver, it is much too hot for directly feeding most transceiver microphone inputs. Further, when using the TTG1 with a transceiver it would be nice to easily key the transceiver when you want to modulate the transceiver with the 2-tone generator. Therefore, I built an external unit that attenuates the hot 2-tone output of the TTG1, and provides PTT for easily keying a transceiver for testing. Figure 1 is a schematic of the Attenuator/PTT external unit.

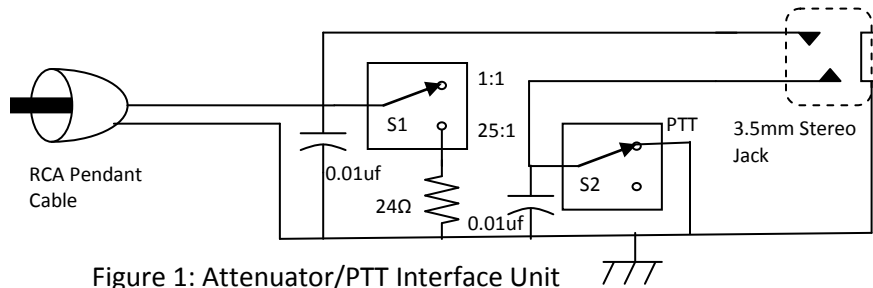


Figure 1: Attenuator/PTT Interface Unit

I built the unit into an aluminum box I found on eBay, but any plastic or aluminum box is fine. Figure 2 shows the internal view of my aluminum box, and Figure 3 shows the attenuator/PTT unit connected to the TTG1 2-tone generator. An interface cable can be easily built to interface with the microphone connector on your radio.

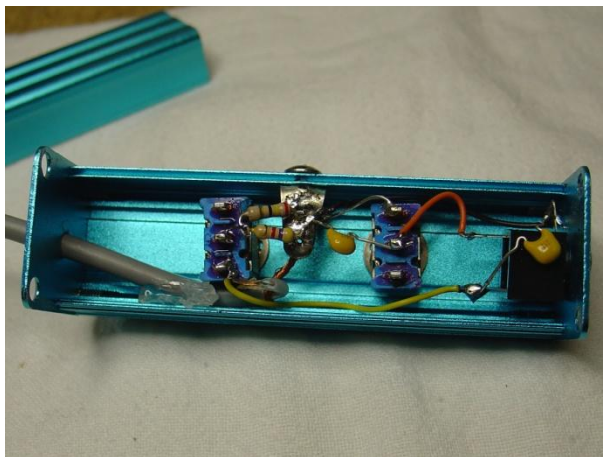


Figure 2: Internal view of Attenuator/PTT



Figure 3: Attenuator/PTT at TTG1 output