



OPERATING INSTRUCTIONS FOR THE RT-150 150 Ohm Termination

The RT-150 Termination is for use with the RPR-4000 high power toneburst pulser/receiver. When the transducer has a high input impedance, reflections can affect the shape of the toneburst. Placing the RT-150 Termination at the output of the RPR-4000 will reduce the reflections. Also by reducing the effective load impedance, as seen by the gated amplifier in the RPR-4000, slightly more power will be drawn from the high power output of the RPR-4000, allowing more control over the voltage amplitude of the high power toneburst. In cases, where the voltage amplitude is still too high, even with the RT-150 and the output control turned to 0.00 setting, the tracking may be turned off and the RF level control be reduced to decrease the output voltage even further. The termination has a female BNC connector as the nominal input and a female BNC connector as the nominal output, though the attenuator can be connected in reverse if desired.

The maximum allowed voltage for the input signal is 2000 Volts peak to peak. The maximum allowed average power dissipation rating is 50 W, or a maximum duty cycle of 0.5% with a high power 10 kW input tone burst. At higher power dissipations, the temperature of the resistors in the termination will exceed the safe operation range.