

Avalanche Pulser
 Output Energy = $C(V_{bias})^2$
 C is the pulser board coupling capacitor 5 - 20pF
 see Pulser board Schematic

To reduce transmission EMF

Package pulser in a conductive case Copper or Aluminum.
 Probably best to avoid low inductance connection between pulser and case
 Case should have a low inductance connection to the local ref. potential (shield)
 although the case only dissipates EMI. It is NOT a faraday shield for the amplifier.

Avoid all unnecessary low inductance connections to the pulser board.
 Supply a shield (braid or pipe) around the pulse output cable all the way to and including the transmission source as possible. If the source is a laser diode
 Encase sensor and amplifier in a separate faraday shield with a small hole for a fiber or direct light path.

