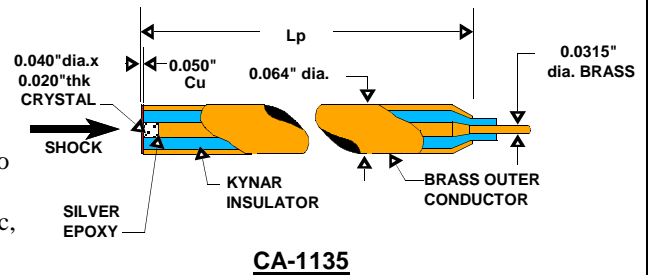


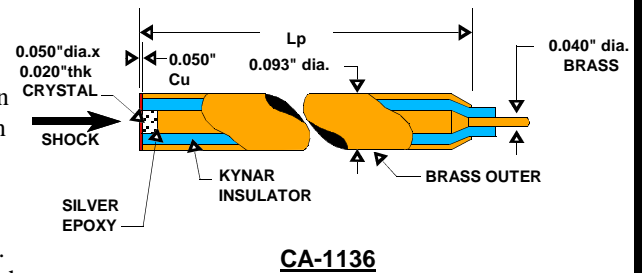
CA-1135

Our piezoelectric pin CA-1135 is a 0.064 inch-diameter arrangement that utilizes a 20-mil (0.020in.) thick PZT-5A crystal disc (curie point: 300 °C). These pins will function from a few psi. (min.) and up. Standard pin lengths are 1/2- to 3-inches. Other lengths are also available at an additional cost. Specify length of pin L_p upon ordering. For fast electrical connections use cable assemblies CA-1147-6 or CA-1147-7. Standard polarity is positive. Negative output polarity also available upon request. The pulse duration for the 0.020" thick crystal design is approx. 0.3µsec. for a shorter pulse duration approx. 0.15µsec, special order this pin with a 0.010" thick crystal.



CA-1136

Our piezoelectric pin CA-1136 is a 0.093-inch diameter arrangement that utilizes a 0.020-inch thick PZT-5A crystal that is 0.052in. in diameter. These pins will function from a few psi. (min.) up to 300kbar [1kbar=15kpsi] with a 0.1microsecond response time. (Note that into a 50 ohm load, a typical 93 mil pin produces approx. 0.4 microcoulomb when crushed, this results in a transient voltage of approx. 70 volts around 2kbar, with a duration of approx. 0.5 microseconds. From 0-2kbar the output appears to be fairly linear.) Pressures of over 2kbar can generate in excess of 100 volts of output into a 50ohm load, but the actual voltage output is a non-linear increasing output for a given pressure above the 2kbar level. Standard pin lengths are 1/2 to 3-inches. Other lengths are available at an additional cost (minimum length =1/4inch). Specify pin length, L_p , upon ordering. Standard polarity is positive. Negative output polarity also available upon request. For convenient electrical connections, use cable assemblies CA-1146-2 and CA-1146-3. The pulse duration for the 0.020" thick crystal design is approx. 0.3µsec. For a shorter pulse duration (approx. 0.15µsec), special order this pin with a 0.010" thick crystal. Note that there is no difference in response time between these two crystals, but, there is slightly more output for a given pressure from the thinner crystal design.



CA-1134

Our piezoelectric pin CA-1134 is a 0.125in. diameter one-single part pin body arrangement that utilizes a 0.020 inch thick PZT-5A crystal. These pins will function from a few psi. (min.) and up. Standard lengths available are 1.0" or 1.375". Other lengths are available upon request at an additional cost. For quick electrical connection, use cable assemblies CA-1147-1. Specify pin length, L_p , upon ordering. Standard polarity is positive.

