

3rd June 1965

Greetings Jennie:

Thank you for your letter of May 24th which arrived on the 27th. On same day an envelope came containing Castanea Dec. 64, catalog on Piab dynamometers, map indexes for Illinois and Wisconsin, plus RC fall 64 quarterly bulletin, second copy. The letter from AD YU Electronics arrived on the 22nd. Please send the catalogs, aerial fotos and Castanea by sea. Graphic Controls was my mistake. Pass them up.

Some coaxial delay line is described in English catalogs but none is available in Australia. It is called Telcon type Z1M. Diameter = 1", Impedance = 550 ohms, Velocity = 0.036C, Capacity = 50pf/ft., Loss = 1.77db/usec at 10mc. Please try to locate something similar to this in U.S.A. Try American Phenolic, General Electric or other cable manufacturers. If some can be had without special manufacture, find out how much length, weight and cost is required to give 2.32 microseconds delay. I may want a sample sent here for test.

Please write to AD YU Electronics, Att: Dr. Paul Yu requesting cost and delivery estimate on a passive delay line as follows:

Maximum dimensions 54" long x 6" square or round.
Total delay 2.32 microseconds
Impedance 1000 ohms which may be altered if necessary.
Attenuation at 3 megacycles = 1db or less.
End terminals 50" apart on one side.
19 taps spaced 2½" apart on same side between end terminals.
No pulses will be used. Energy passing thru this line will be a continuum about 50kc wide at 3mc.

Please write to Raytheon and Texas Instrument companies requesting performance characteristics, prices and availability on Field Effect Transistors. A high input resistance device is desired which will deliver 20 milliamperes into a 1500 ohm load direct current. Can more than one transistor be used in parallel to increase the output current?

Cosmic Static observations were best during April. Only short periods of observations were secured from time to time during May. Apparently we passed thru solar activity minimum about last October. I will operate my equipment thru the winter to see what happens. It is my intention to organize all my results and send to publishers while I am still here. Then I'll close this operation permanently and get on with other matters. It will probably be near end of year before I return to U.S.A.

Enclosed are three aerial fotos of my installation at Bothwell.

Best regards,

Grote Reber
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