

30/9/66

Greetings Jennie:

In response to Sam Smiths letter of 7/7/66 Pilot Chemicals sent literature on 27/7/66 which arrived here on 9/9/66. After your prompting, they sent voluminous further literature on 9/9/66 with \$2.75 air postage which arrived on 13/9/66. They are very coy about giving information on the brightness of light flash versus energy of particle. I will try engaging them in correspondence direct.

Please contact American Phenolic Products and secure modern literature and prices about their beaded coaxial cable. Twentyfive years ago they manufactured such a product. Upon a central fine wire were strung overlapping clear polystyrene beads $\frac{3}{8}$ " diameter, each shaped like a small thimble. This snake like affair was covered with tinned copper braid sheath and then black woven fibre. The overall diameter was about a half inch. Special hard brown heat resistant beads of mica compound were placed at ends for mechanical termination.

Please visit your radio store and secure two each of RCA type 3N98 and 3N99 transistors. Send by sea marked "Free Gift, Scientific Samples, No Commercial Value. I now have the literature on these devices.

The conventional small germanium diode has a forward resistance of a few tens of ohms and a backward resistance of a few megohms. I am looking for a similar device with a forward resistance of less than a few hundred ohms and a backward resistance of at least a few hundred megohms. Solid state diodes are made by probably ten manufacturers. Please ask the purchasing department to hunt up such a device. If one can be found, secure some literature and include four diodes with the transistors. I am developing the subassemblies of completely new solid state radio astronomy equipment to be used at a future time.

My equipment at Bothwell still operates continuously. Recently I've secured some more observations on the Large Magellanic Cloud. Diffractions patterns caused by sharp edge of ionosphere demonstrate there is at least one small bright object in the larger absorbing region. This confirms observations of two years ago.

When is the follower of the Beagle to arrive?

Best regards,

Grote Reber
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