



the gain of the 2N3819 stage. A gain of 2 or 3 at the vlf output is desirable to drive the additional filters and limiting amplifiers in the Omega receiver.

This isolating preamplifier can also be used in ground-station monitors with a single wire antenna driving two receivers, such as a WWVB 60-kHz time ref-

erence plus 100-kHz Loran C, or an Omega plus Loran C, and so forth. One of the receivers must supply power to the preamplifier, as shown in the figure. The upper frequency is limited to 1,500 kHz by the low-cost JFETs; somewhat higher-frequency performance might be achieved with JFETs such as the 2N4416. □