



Figure 14.1 Schematic diagram of the front end (upconverter, IF75BC) for the Star-10 transceiver. The receiver uses a push-pull Norton amplifier, a high-level H-mode mixer, and class A amplifiers. An MDS of -132 dBm was calculated (-136 dBm actual was measured) and an IP3 of $+45$ dBm was predicted and found. Power consumption is over 30 watts DC. (From: [1-3]. Figure courtesy of ARRL.)