



Figure 1. The HQ-180 Communications Receiver

TUBE COMPLEMENT

SYMBOL	TYPE	TUBE	FUNCTION
V1	6BZ6	Pentode	RF Amplifier
V2	6BE6	Pentagrid Converter	1st Mixer
V3	6BE6	Pentagrid Converter	Converter
V4	6BA6	Pentode	455 Kcs IF Amplifier
V5	6BE6	Pentagrid Converter	Converter
V6	6BA6	Pentode	60 Kcs IF Amplifier
V7	6BA6	Pentode	60 Kcs IF Amplifier
V8	6BV8	Double Diode-Triode	60 Kcs IF Amplifier, AVC, AM Det.
V9	12AU7	Double Triode	SSB Product Detector
V10	6AL5	Double Diode	Noise Limiter
V11	6BZ6	Pentode	Crystal Calibrator Oscillator
V12	6C4	Triode	High Frequency Oscillator
V13	12AU7	Double Triode	60 Kcs BFO, "S" Meter Amplifier
V14	OA2	Gas Filled Diode	Voltage Regulator
V15	5U4-GB	Twin Diode	Rectifier
V16	6AV6	Double Diode-Triode	First AF Amplifier, Delayed AVC
V17	6AQ5	Pentode	AF Output
V18	6BA6	Pentode	455 Kc Gate