

TS-820S SPECIFICATION

FREQUENCY RANGE 160 meter band — 1.80 to 2.00 MHz
 80 meter band — 3.50 to 4.00 MHz
 40 meter band — 7.00 to 7.30 MHz
 20 meter band — 14.00 to 14.35 MHz
 15 meter band — 21.00 to 21.45 MHz
 10 meter band — 28.00 to 28.50 MHz (A)
 10 meter band — 28.50 to 29.00 MHz (B)
 10 meter band — 29.00 to 29.50 MHz (C)
 10 meter band — 29.50 to 29.70 MHz (D)
WWV — 15.0 MHz (receive only)

MODE USB, LSB, or CW, FSK

POWER REQUIREMENTS

	120/220 VAC, 50/60 Hz		13.8V DC operation	
	TS-820S	TS-820	TS-820S	TS-820
Receive	57 watts (heaters on) 38 watts (heaters off)	45 watts (heaters on) 26 watts (heaters off)	6A (heaters on) 1.4A (heaters off)	5A (heaters on) 0.6A (heaters off)
Transmit	292 watts (maximum)	280 watts (maximum)	16A (Maximum)	15A (maximum)

PLATE POWER INPUT

	120/220 VAC, 50/60 Hz operation	13.8V DC operation
	200 watts PEP for SSB operation 160 watts DC for CW operation 100 watts for FSK operation	120 watts PEP for SSB operation 90 watts DC for CW operation 60 watts for FSK operation

AUDIO INPUT IMPEDANCE 50 k ohms (high impedance)
AUDIO OUTPUT IMPEDANCE 4 to 16 ohms (speaker or headphones)
AUDIO OUTPUT More than 1.5 watts (with less than 10% distortion) into an 8 ohm load.
RF OUTPUT IMPEDANCE 50 ~ 75 ohms
FREQUENCY STABILITY Within 100 Hz during any 30 minute period after warmup
 Within ±1 kHz during the first hour after 1 minute of warmup
AUDIO FREQUENCY RESPONSE 400 to 2600 Hz, within — 6 db
CARRIER SUPPRESSION Carrier better than 40 db down from the output signal
SIDEBAND SUPPRESSION Unwanted sideband is better than 50 db down from the output signal
IMAGE RATIO Image frequency better than 60 db down from the output signal
HARMONIC RADIATION Better than 40 db down from output signal
SPURIOUS RADIATION Better than 60 db down from output signal (without harmonic radiation)
IF REJECTION IF frequency is 80 db or more down from output signal
RECEIVER SENSITIVITY 0.25 μV S+N/N 10 db or more
RECEIVER SELECTIVITY SSB: 2.4 kHz bandwidth (— 6 db down)
 4.4 kHz bandwidth (— 60 db down)
 CW*: 0.5 kHz bandwidth (— 6 db down)
 1.8 kHz bandwidth (— 60 db down)
 * (with optional CW filter installed)

TUBE AND SEMICONDUCTOR COMPLEMENT

	TS-820S	TS-820
Tubes	3	3
IC'S	38	5
FET'S	31	30
Transistors	95	74
Diodes	195	167

DIMENSIONS 13.2" wide × 5.9" high × 13.2" deep

WEIGHT 37.4 lbs.