Technician Licensing Class

Introduction

Valid July 1, 2018 Through June 30, 2022

Sterling Park Amateur Radio Club (SPARC)

- Web site: www.qsl.net/sterling
- Hold monthly meetings
- Have one other activity per month

- Technician License preparatory classes
- License examination sessions

License Levels

- Technician (entry-level license)
 - All amateur privileges above 50 MHz; limited CW, Phone, and Data privileges below 30 MHz
- General
 - Technician privileges plus most amateur HF privileges
- Amateur Extra
 - All amateur privileges

Technician License Exam Syllabus

- T1 FCC Rules, descriptions and definitions for the amateur radio service, operator and station license responsibilities
- T2 Operating Procedures
- T3 Radio wave characteristics, radio and electromagnetic properties, propagation modes
- T4 Amateur radio practices and station setup
- T5 Electrical principles, math for electronics, electronic principles, Ohm's Law
- T6 Electrical components, semiconductors, circuit diagrams, component functions
- T7 Station equipment, common transmitter and receiver problems, antenna measurements and troubleshooting, basic repair and testing
- T8 Modulation modes, amateur satellite operation, operating activities, non-voice communications
- T9 Antennas, feedlines
- T10 AC power circuits, antenna installation, RF hazards

Technician License Question Pool

Subelements	Topics	Pool Questions	Exam Questions
T1	T1A-T1F	78	6
T2	T2A-T2C	37	3
T3	T3A-T3C	34	3
T4	T4A-T4B	24	2
T5	T5A-T5D	50	4
T6	T6A-T6D	48	4
T7	T7A-T7D	48	4
T8	T8A-T8D	46	4
T9	T9A-T9B	25	2
T0	T0A-T0C	36	3
10	35	426	35

US Amateur Radio Bands

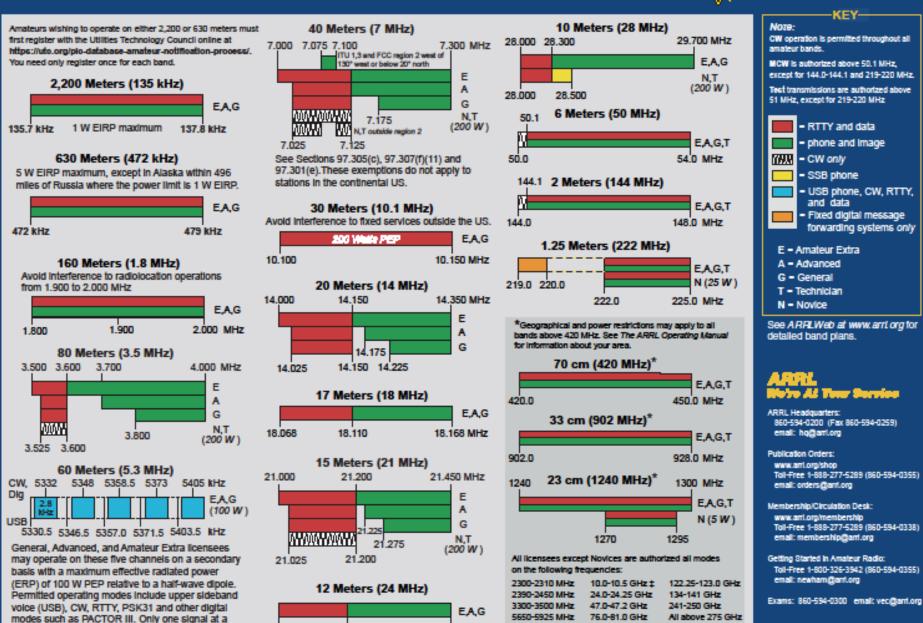
US AMATEUR POWER LIMITS — FCC 97.313 An amateur station must use the minimum transmitter power necessary to carry out the desired communications. (b) No station may transmit with a transmitter power exceeding 1.5 kW PEP.

24.890

time is permitted on any channel.

24,930



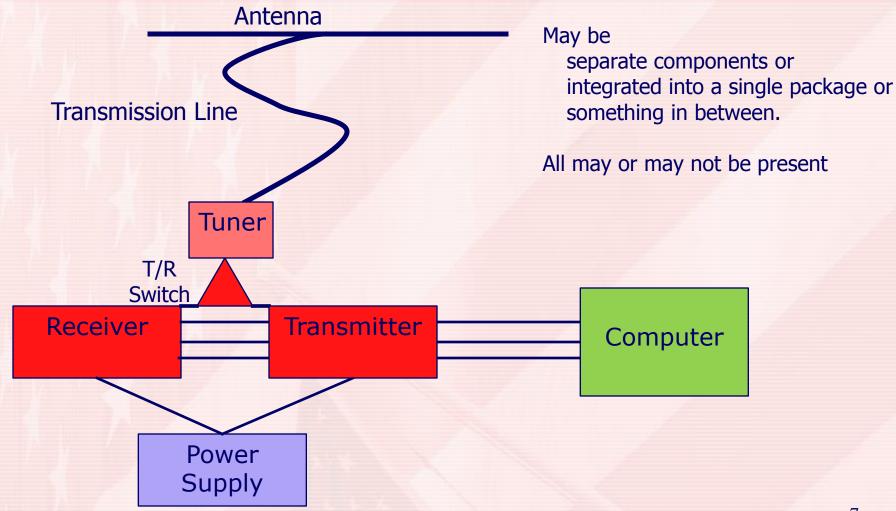


24,990 MHz

± No pulse emissions

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Parts of a radio



What radio do I buy?

Feature	Inexpensive Handheld	Modern Fixed/Mobile
Frequency		
Tech	2M/70cm	All HF/MF/UHF/VHF
General		All HF/MF/UHF/VHF
Extra		All HF/MF/UHF/VHF
Mode		
FM	X	X
SSB		X
CW		X
Digital		X (w/ or w/o computer)
Output Power		
QRP (<10 W)	X	
Low (~100 W)		X
High (~1500 W)		Only with amplifier