method described in e above but remove the ave interconnection; do not use ave or bfo. To obtain the output, connect to one of the three interconnected jumper terminals of the DIODE OUT-PUT.

## 5. Technical Characteristics

Frequency range:	
Band 1	.54 me to 1.35 me.
Band 2	
Band 3	
Band 4	7.4 mc to 14.8 mc.
Band 5	14.8 mc to 29.7 mc.
Band 6	29.7 mc to 54 mc.
Crystal controlled (Radio	1.35 me to 29.7 me.
Receivers R-274A/	
FRR and R-274C/	
FRR only) (bands	
2 through 5).	
Receiver type	Superheterodyne, single and double conversion.
I-f (bands 1, 2, and 3) (single conversion).	455 kc.
I-f (bands 4, 5, and 6) (double conversion).	3,955 ke; then 455 ke.
Types of signals that can be	A-m.
received.	A1—cw.
	A2—cw.
	A3—Voice.
	F1-FSK Keying.
Number of tubes:	
Radio Receivers R-320A/	19 each.
FRC, R-483/FRR,	
and R-483A/FRR.	
Radio Receivers R-274A/	20 each.
FRR and R-274C/	
FRR.	
A-c supply requirements:	
Source rating	90- to 270-volt ac.
Radio Receivers R-	25 to 60 cps.
483/FRR and R-	i i
483A/FRR.	
Radio Receivers R- 274A/FRR, R-	50 to 60 cps.
274C/FRR, and	
R-320A/FPC.	
Power consumption	
Sensitivity	
	cw, .75 $\mu$ v or bet-
	ter; a signal-plus-
	noise to noise power
(m)	ratio of 10 to 1 at
	a 3-ke bandwidth.

Selectivity:	
Crystal, 6 db down	
Noncrystal, 6 db down	ke bandwidths.  3-ke, 8-ke, and 13-ke bandwidths.
Fuses:	1.0
Line fuse	1.6-ampere or 3-
B+ fuse	ampere. %-ampere.
Crystals:	78 differe.
3,500 kc (all models)	3.5-mc crystal oscillator (double conversion).
455 kc (all models)	I-f filter circuit.
1.805 mc to 11.218333 mc (Radio Receivers R-274A/FRR and R- 274C/FRR only).	H-f crystal oscillator (bands 2 through 5) (Crystal Unit CR-18/U not sup- plied).
Permissible ambient temperature.	32° F. to 140° F.
Relative humidity	95 percent.
Output matching load	
impedances:	200 1
600 OHMS balanced PHONES	8,000 ohms, resistive. (This circuit will operate satisfactorily with headsets ranging from 600-to 8,000-ohm im-
I-F OUTPUT	pedance.)
Maximum undistorted power	70 ohms, resistive. 2 watts.
output.	2 (42005.
Antennas:	
Dipole	
	152, two Insulators
	IN-124, Rope RP-3, and six In-
	sulators IN-125.
Straight wire (simple)	
	W-152.
Lead-in	Wire W-151.
Weight:	
Radio Receiver R- 274A/FRR.	
Table-cabinet type	
Rack-mounting type_ Radio Receiver R-	67.5 pounds.
320A/FRC.	or.o pounds.
Radio Receiver R-	96 pounds.
483/FRR or $R-483A/$	
FRR.	07.5
Radio Receiver R- 274C/FRR.	97.5 pounds.
2140/FIM.	