

RECEIVER

TYPE		Single conversion with separate 8 pole Monolithic quartz crystal filter for AM and SSB
SENSITIVITY (10 dB $\frac{s+n}{n}$)	SSB AM	Better than 0.25uV Better than 0.35uV, 50% AM Better than 0.50uV, 30% AM (EIA)
SELECTIVITY (3 dB)	SSB	Center frequency to lower bandedge 200-300Hz Center frequency to upper bandedge 2700 to 3000 Hz
RF GAIN SQUELCH	AM	± 2.2 KHz Min, ± 2.7 KHz Max Adjustable, 30 dB Minimum Adjustable, from sensitivity to over 1000uV
AGC		Less than 10 dB change in audio output with input signal level from 1uV to 10,000uV
ADJACENT CHANNEL REJECTION AND DESENSITIZATION IMAGE REJECTION SSB AM SILENCING *(AMSIL)		Better than 65 dB (E1A-RS-382) Better than 80 dB (common) Better than 80 dB All but unusually strong AM signals may be squelched so that only SSB signals are received
SCANNING FUNCTION BUSY		Automatically seeks busy channels; stays on busy channel for 3 to 5 seconds after end of conversation to pick up any reply. Then continues to search for next busy channel
OPEN		Automatically seeks open channels
NOISE BLANKER RECEIVER EMI ANTENNA TERMINAL		Automatic series gate Less than 0.2 Nanowatt at any frequency in the range of 25 to 500 MHz
CASE RADIATION		Less than 5uV/m at a distance of 3 meters from receiver case in the frequency range of 25 to 500 MHz
CONDUCTED LINE		Less than 100uV at any frequency in the range of 0.45 to 25 MHz

FREQUENCY SYNTHESIZER

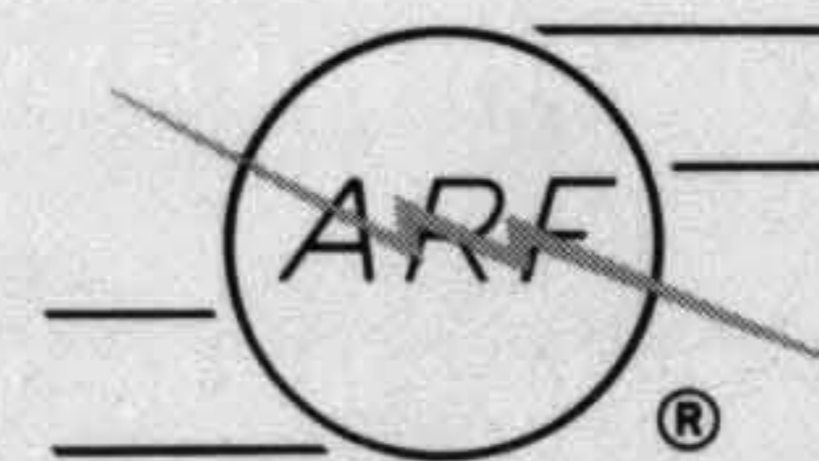
TYPE	Micro computer controlled phase lock loop
CHANNELS	40
CHANNEL DISPLAY	2 Digit 1/2 inch LED
CHANNEL SELECTOR	Keyboard entry
ILLEGITIMATE CHANNEL ENTRY	Synthesizer goes to channel 19
FREQUENCY RANGE	26.965 to 27.405 MHz
FREQUENCY ACCURACY	± 150 Hz
TEMPERATURE STABILITY	± 200 Hz (-30°C to 50°C)
FINE TUNE RANGE	± 600 Hz Min; ± 1350 Hz Max
KEYBOARD FUNCTIONS MONITOR	Automatically monitors the emergency recall register for a short period of time once every 10 to 15 seconds
SCAN	Automatically searches for busy channels or open channel in memory or all 40 channels
MEMORY	Memory storage for up to ten (10) channel numbers
EMERGENCY 9 CHANNEL SELECTOR RECALL (RCL)	Immediate channel 9 entry Fast or slow up-down channel selector Recall loads the displayed channel into a recall register (memory). Also recalls and displays the content of the recall register

TRANSMITTER

TYPE	SSB	Linear class AB in SSB with automatic level control (ALC)
	AM	Class C in AM with a closed loop Servo Amplitude Modulator (SAM)
SSB MODE (U OR L) RATED POWER		12 Watts PEP with two tone modulation of 400 and 2400 Hz
ALC RANGE		Maintains rated PEP for microphone signal level change of 16 dB
IMD		3rd order intermodulation distortion is greater than 25 dB down
MODULATION FREQUENCY RESPONSE AT ONE HALF RATE PEP AM MODE OUTPUT POWER		± 0.5 Watt from 300 Hz to 2100 Hz Average unmodulated carrier power 4.0 Watts (Max) Average modulated waveform power *(SAM) ON 7.2 Watts (Max) OFF 6.0 Watts (Max) Peak modulated power 16 Watts (Max)
UNMODULATED CARRIER FLATNESS CHANNEL 1 to 40 MODULATION DEGREE	SAM ON	± 0.2 Watt 100 Percent Max
	OFF	Maintains full AM modulation and unmodulated carrier power for normal range of voice signals. The power in each sideband (talk power) is maintained at 1.57 Watt
OUTPUT FILTER		Conventional CB transmitter maintains each sideband power at 0.15 Watt 7th order Elliptic

GENERAL SPECIFICATIONS

AUDIO OUTPUT POWER		4.0 Watts into 8 ohms 6.0 Watts into 4 ohms
FREQUENCY RESPONSE	AM SSB PA	6 dB 200 Hz to 2500 Hz 6 dB 300 Hz to 2500 Hz 6 dB 100 Hz to 2500 Hz
POWER SUPPLY	VOLTAGE REGULATOR WEIGHT SIZE	117V AC at 60 Hz Precision series regulator 22 lb. 7 X 18 X 15 (HWD) inches
FCC TYPE ACCEPTED *PATENT PENDING		ARF 2001



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*Patent Pending