

THE FM LEADER

- - 2 METER © 220 MHz
- - 6 METER 440 MHz

HR-2B

Full 12 Channel 2 Meter Narrow Band FM Transceiver

15 Watts Power Out 12 Channel Transmit and Receive Capability

You'll like the crystal clear transmit and receive performance of this compact. 2 meter unit and so will those listening. The 12 transmit channels are provided with individual trimmer capacitors for the optimum in point to point and repeater applications. The receiver has an audio output of 3 watts at an excellent sensitivity rating. Solid state. American Made quality at a low price!



Size: 21/4 x 51/2 x 71/2

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SPECIFICATIONS

Antenna Impedance	50 Ohms
Frequency Range	144-148 MHz
Sensitivity	.35μν (nom.) 20db quieting
Selectivity	6db Down ±7 KHz 50db Down ±20 KHz
Image Rejection	50 db
Spurious Rejection	60 db
Modulation Acceptance	7.5 KHz
Audio Output (3-4 Q Speaker)3 Watts	@ 10%, or less, distortion 5 watts maximum
Squeich System	""" 'Noise' operated
Channels	12; Crystal Controlled
I.F. Frequencies	10.7 MHz and 455 KHz
Crystal Installed	146.94 MHz in Channel 1

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TRANSMITTER	
Antenna Impedance	50 ohms
Frequency Range	144-148 MHz
Power Output	
Power Bandwidth	15 watts from 144-148 MHz
Harmonic and Spuriou	is Rejection58db, or more, below carrier
ModulationPhase	Modulation with automatic deviation limiting
Deviation	Factory adjusted to ±5 KHz; internal

Mike Preamp	FET Input with internal level control
Microphone	Plug-in, hand held; high-Z ceramic
Channels	12; Crystal Controlled with individual trimmer capacitors for Frequency netting
Power Amp Protection	VSWR Bridge Limiting Circuit
Crystal Installed	146.94 MHz in Channel 1
Transmit crystal frequer	ncy range 8.0-8.22 MHz
POWER	
Voltage Requirements	13.8V DC (nom.): 11.5 (min.)—14.5 (max.)
Receive (Squelched) Receive (Max. audio o	@ 13.8 Volts
Fuse Size	
Shipping Weight	
SEMICONDUCTORS	
Integrated Circuits	2
,	ansistors 24
Field Effect Transisto	rs 2
	9 2

Varactor Diodes Signal Diodes Rectifier Diode

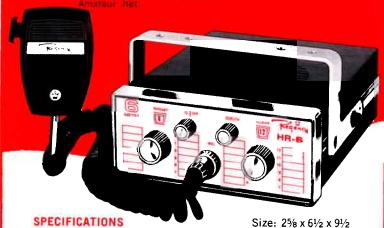
HR-6

25 Watt/12 Channel Transceiver

Compact—Solid State Performance at Extremely Low Power Drain

Here is the power to get you out on the 6 meter band. without use of black box power hogs in the trunk of your car. You can work repeaters, or work skip on mount, the HR-6 provides American Made reliability. to the smallest of mobiles.

includes crysters installed for 52,525 MHz, mounting bracket and plug in, caramic mike.



Antenna Impedance	50 ohms
Frequency Range	52-54 MHz
Sensitivity	(Nom.) 20db Quieting
Selectivity	6db ± 16 KHz
Image Rejection	50db ± 32 KHz
Spurious Rejections	60db
Modulation Acceptance	
Audio Output (3-4 ohm speaker)3 watts @	10% or less distortion; 5 watts maximum.
Squelch System	
Channels 12 crystal controlled with indeper	dent channel selector
I.F. Frequencies	10.7 MHz and 455 KHz
Crystal Installed	52.525 MHz Channel 1

TRANSMITTER

Antenna Impedance	
Frequency Range	52-54 MHz
Power Output	25 watts min. @ 13.8V DC
Power Bandwidth	
Harmonic & Spurious Emissions	
Modulation Phase modulation	with automatic deviation limiting.
DeviationInternal adjustable	from 0-15KC. Factory set to 10KC.
Microphone PreampFET in	put with internal level adjustment.
Channels12 crystal controlled	with independent channel selector
and in	dividual channel netting capacitors
Power Amp Protection	VSWR Bridge limiting circuit
Crystal installed	52.525 MHz Channel 1

POWER

Voltage Requirements13.8V DC (nom.): 11.5V (min.)-	-14.5V (max.)
Current Requirements	. @ 13.8V DC
Receive (Squelched)	280 MA
Receive (Max. audio output)	900 MA
Transmit	4.5 Amp
Fuse Size	.10 amp. 3AG

SEMICONDUCTORS

Shipping Weight			
Varactor Diodes	2	Rectifier Diodes	
Zener Diodes	2	Signal Diodes	4
Diodes (total)	• • • • • • • • • • • • • • • • • • • •		9
Field Effect Transistors			2
Dual Gate MOS FET Tran	sistor		1
Silicon BEI Power Transis	stors	***************************************	2
Silicon Transistors (Total)	1		25
Integrated Circuits			3
SEMICONDUCTURS			

HR-220

The 12 channel 220 MHz FM Transceiver

10 watts power out/12 channel transmit and receive capability

Compactly designed for dash mount, this little transceiver gives you big signal power on the go . . . at low current drain. 5 watts audio equipped with a noise operated squelch system, provides clear reception and excellent sensitivity. American Made and Regency Reliable, the HR-220's solid state design brings you tough, top quality circuitry at a low price.

Includes plug-in ceramic mike, dash mounting bracket and factory installed transmit and receive crystals for 223.50 Amateur Net



SPECIFICATIONS

Size: 21/4 x 51/2 x 71/2

RECEIVER

Antenna Impedance	50 Ohms
Frequency Range	200-225 MHz
Sensitivity	0.4µV (nom.) 20 DB Quieting
Selectivity	6 DB Down ±7 KHz
SASASAM.	55 DB Down ±20 KHz
Spurious Rejection	60 DB
Modulation Acceptance	±7.5 KHz
Audio Output (3-4 1) Speaker)	3 watts @ 10%, or less, distortion; 5 watts maximum
Squelch System	"Noise" operated
Channels	12; Crystal Controlled
Receiver Crystal Frequency Range	57.67-58.92 MHz
I.F. Frequencies	10.7 MHz and 455 KHz
Crystal installed	223.50 MHz in Channel 1

TRANSMITTER

Antenna impedance	50 Ohms
Frequency Range	220-225 MHz
Power Output	10 watts (min.) @ 13.8V DC
Power Bandwidth	10 watts from 220-225 MHz
Harmonic and Spurious Emis	isions 55 DB, or more, below carrier
Modulation Phase Mod	dulation with automatic deviation limiting
Deviation	Factory adjusted to ±5 KHz: Internal
	adjustment of 0-10 KHz deviation
Mike Preamp	FET Input with internal level control
Microphone	Plug-in, hand held, high-Z ceramic
Channels	12; Crystal Controlled with Individual
	trimmer capacitors for Frequency netting
Power Amp Protection	VSWR Bridge Limiting Circuit
Crystal Installed	223.50 MHz in Channel 1

POWER

Voltage Requirements 1 Current Requirements	3.8V DC (nom.): 11.5V (min.)-14.5 (max.)
Receive (Squetched)	@ 13.8V DC 180 MA.
Receive (Max. audio output Transmit	800 MA. 2.5 amps (max.)
Fuse Size	3 Amp 3 AG
Shipping Weight	515 Lbs.

SEMICONDUCTORS

Integrated Circuits	
Silicon Transistors (Total)	2
Silicon BET Power Transistors	
Field Effect Transistors	
Diodes (Total)	
Zener Diodes	
Varactor Diodes	
Signal Diodes	
Rectifier Diodes	

HR-440

The 12 Channel 440 MHz FM Transceiver

Delivers 10 Watts of Power and 12 Channel Canability

UHF power module. Frequency range is 420-450 And all of this for the low, low price of only

\$349.00



SPECIFICATIONS

Size: 21/4 x 51/2 x 71/2

RECEIVER

Antenna Impedance
Frequency Range
Factory Tuned Segment
Sensitivity
Sensitivity Bandwidth 50 Ohms
420-450 MHz
442-448 MHz
0.5µv (nom.), 20 DB Quieting
approx. 3.5 MHz @ 3 DB
approx. 6.5 MHz @ 6 DB
6 DB Down ±7 KHz
50 DB Down ±20 KHz
60 DB
±7.5 KHz Spurious Rejections Modulation Acceptance Modulation Acceptance ±7.5 KHz
I.F. Frequencies 10.7 MHz & 455 KHz
Audio Output (3-4Ω Speaker) 3 Watts @ 10%, or less, Distortion;
5 Watts Maximum
Squelch System "Noise" Operated
AFC Range ±6 KHz (approx.)
Channels 12; Crystal Controlled
Crystal Installed 446.00 MHz in Channel 1
FCC Certified Part 15, Subpart C AFC Range Channels Crystal Installed FCC Certified

TRANSMITTER

Antenna Impedance 50 Ohms 420-450 MHz Frequency Range
Factory Tuned Segment
Power Output
Power Bandwidth (factory range)
Power Module Protection 420-450 MHz 444-450 MHz 10 Watts (min.) @ 13.6 VDC 10 watts from 444-450 MHz SWR Bridge Limiting Circuit 54 DB, or more, below carrier Harmonic and Spurious Emissions Modulation Deviation

below carrier

Phase Modulation with
automatic deviation limiting
Factory adjusted to 5 KHz; internal
adjustment of 0-10 KHz deviation
FET Inout with internal level control
Plug-in, hand held, high-Z ceramic
12; Crystal Controlled with individual
trimmer capacitors for Frequency netting Mike Pre-Amp Microphone Channels

Crystal Multiplication Crystal Installed

446.00 MHz in Channel 1

POWER

Voltage Requirements 11.5 VDC (min)—14.5 VDC (max)
Current Requirements
Receive (Squelched)
Receive (Max. Audio Output) @ 13.6 Volts 180 MA. 800 MA. Transmit

5 Amp. 3AG SEMICONDUCTORS SEMICONDUCTORS

UHF Power Module
Integrated Circuits
Silicon Transistors (Total)
Field Effect Transistors
Diodes (Total)
Zener Diodes
Varactor Diodes
Signal Diodes
Rectifier Diodes 23 2 10

AR-2

2 Meter FM Power Amplifier

Put your signal where you want it. Boost signal power 300% with this mini-sized amplifier.



SPECIFICATIONS

Size: 21/4 x 51/2 x 71/2

Frequency Range Power Output (typical @ 13.8V DC) • @ 10 watts in, 32 watts out • @ 15 watts in, 48 watts out • @ 20 watts in, 64 watts out • @ 25 watts in, 80 watts out Power Bandwidth (@ 25 watts in) _____75 watts from 145-148 MHz Maximum Power Input Power Gain Approx. 5db (3.2 times input)
Efficiency 65 to 75% (70% typical) Power Supply Requirements: Voltage 13.8V DC (nominal)
Current 9 amps @ 80 watts output: 5.5 amps ⊕ 50 watts output Fuse Size 10 amp. 3 AG SEMICONDUCTORS

Silicon Transistors (total) Silicon BET power transistors 2 Diodes



Amateur Net

P-110

REGULATED POWER SUPPLY

P-110 SPECIFICATION

Input Voltage Input Power: @ 120V AC, 50 Hz: 120V AC (110V AC min; 130V AC max); 60 Hz

HR-312

The New 2 Meter Transceiver with 144 Channel Capability 35 Watts of Power with Super Receiver Performance.

or unlocking the unique mode switch. This kind of channel flexibility coupled



SPECIFICATIONS

DECEIVED

Size: 25/8 x 61/2 x 91/2

RECEIVER	
Antenna Impedance	50 Ohms
Frequency Range	
Sensitivity (at Tune-up)	
	0.25 µV (nom.) 20 DB Quieting
Selectivity (typical)	+9KHz @ 6 DB
Selectivity (typical) Selectivity-Adjacent Channel	75 DB Min (±30 KHz)
	65 DB Min.
Image Rejection	70 DB Min.
Spurious Rejections	60 DB Min.
Modulation Acceptance	±7.5 KHz
I.F. Frequencies	10.7 MHz & 455 KHz
	le Crystal Filters @ 10.7 MHz
	nent Ceramic Filter @ 455 KHz
Squelch System	
Squelch-Threshold	Approximately 0.1 μV
Squelch Range (typical)	6 DB
Audio Output (typical)	@ 5 KHz Deviation
3.29 Speaker (internal) 3.2 Watts @	
, ,	Watts Maximum
80 Speaker 1.8 Watts @ 2%, or less D	Distortion; 4.8 Watts Maximum
Channels	12; crystal controlled
Crystal Installed	146.94 MHz in Channel 1
FCC Certified	Part 15, Subpart C
	,,
TRANSMITTER	

Antenna Impendance		50 Ohms
Frequency Range		144-148 MHz

Power Output (at Tune-up) Power Bandwidth (@ 13.6 VDC) 35 Watts (Nom.) @ 13.6 VDC 30 Watts min, 144-148 MHz

Power Amp. Protection	SWR Bridge Limiting Circuit
Harmonic and Spurious Emissions	58 DB, or more, below Carrier
Modulation Phase Modulation,	with automatic deviation limiting
Deviation 0-15 KHz, internal adjusti	ment; Factory Adjusted to ± 5 KHz
Microphone Pre-amp	FET with internal level control
Microphone	Hi-z Ceramic; Plug-in (5-pin)
Channels 12; crystal controlled	with individual netting capacitors
Crystal Multiplication	18
Crystal Installed	146.94 MHz in Channel 1

POWER

Voltage Requirements	11.0	VDC	Min.	to	15	VDC Max; negative
						ground system
Current Requirements						@ 13.6 VDC
Receive (squelched)						220 MA
Receive (max. audio output)						1 Amp.
Transmit						5.5 Amps. (typical)
Transmit @ 15 VDC						7 Amps Max.
Fuse Size						10 Amp., 3 AG

SEMICONDUCTORS	
Integrated Circuits	4
Silicon Transistors (total)	17
RF Power Transistors	2
FET Transistors	3
Diodes (Total)	19
Signal Diodes	14
Varactor Diodes	2
Zener Diodes	2
Rectifier Diode	1



SPECIFICATIONS

Size: 31/6 x 111/6 x 93/4

SPECIFICATIONS	Size: 3%6 x 1 %6 x 9%4
RECEIVER Antenna (external) impedance Frequency Range Channels	50 Ohms
Cruetal Installed	146.94 1/10/2
Sensitivity	0.7µv, 20 DB Quieting
Spurious Rejections (excluding primary IF Frequencies	
IF Filters Squelch System	2; ceramic
Modulation Acceptance	+ 7 KHz
Audio Output (329 Speaker)FCC Certified	Part 15, Subpart C
TRANSMITTER	,
Antenna (external) Impedance	50 Ohms
Frequency Range Channels 5; Crystal Controlled with	144-148 MHz
Crystal Installed	146.94 MHz
Crystal Multiplication Power Output—Hi Position	12
Lo Position	1 Watt (max) @ 14.4V DC
Modulation Frequency Modulation with Deviation 0-7 KHz; Factor	n Automatic Deviation Limiting ary Adjusted to 5 KHz (approx.)
Microphone (internal) Microphone (external)	32º Speaker
Microphone (external)	300Ω, dynamic type
POWER	11 16 // 00
Voltage Requirements	@ 14.4V DC
Receive—Squelched	30 MA, (typ.)
Receive—Max. Audio Output Transmit—HI Power	100 MA, (typ.)
Transmit—LO Power	
SEMICONDUCTORS	
Integrated Circuits	3
Silicon Transistors (Total) Field Effect Transistor	L
Balanced Emitter Transistor (RE Pov	ver) 1
Diodes (Total) Zener Diodes	
Varactor Diode	1

HRT-2

New 5 Channel 2 Meter Narrow Band FM Hand-Held Transceiver

With a power output of 2 watts (min.), this little hand-held transceiver is the portable and convenient answer to two-way radio needs. A double-conversion, super-hetrodyne receiver design employs two ceramic filters for optimum performance in areas where numerous channels are closely grouped together. The transmitter and receiver sections both employ band-pass circuitry so that effective transmitter power and receiver sensitivity are maintained across the entire band (144-148 MHz). Three integrated circuits provide for compactness and circuit reliability. Complete operation from 3 simple controls: on off volume, squelch, and channel selector. High-Low power switch. Removable telescoping, internal antenna can be easily replaced with a short, flexible type antenna. Extra provisions have been made for external mike, external power supply, external earphone, and external antenna. Case is made of high-impact ABS plastic. American Made quality with Regency reliability.

BASIC PACKAGE

\$179.00

Amateur Net

includes factory installed transmit and receive crystals for $146.94\,\mathrm{MHz}.$

Shipping weight: 134 lbs.

INTERMEDIATE PACKAGE \$229.00

Amateur Net

includes MA-50 Nicad battery and factory installed transmit and receive crystals for 146.94 MHz.

Shipping weight: 21/2 lbs.

DELUXE PACKAGE \$295 00

Amateur Net

includes MA-50 Nicad battery, BC-101 Battery Charger, MA-30 Flexible Antenna with adapter, MA-58 External Mike, MA-54 Leather Carry-Case, MA-52 Earphone, MA-29 DC Power Cord with cigarette plug, and factory installed transmit and receive crystals for 146.94 MHz.

Shipping weight: 41/4 lbs.

