

SPECIFICATIONS

General	
Frequency Ranges:	RX: 0.5-1.71MHz(AMRadio) 76-108MHz (FM Radio) 108-135.995MHz (Air Band) 137-173.995MHz (144MHz HAM Band) 174-250MHz (VHF TV Band) 300-399.995MHz (General 1) 400-479.995MHz (430MHz HAM Band) 480-520MHz (General 2) TX: 136-173.995MHz(HamBand) 222-225 MHz (USA version only) 430-479.995MHz (Ham Band)
Channel Steps:	2.5, 5, 6.25, 10, 12.5, 15, 20, 25, 50, 100, 200KHz.
Frequency Stability:	± 2.5ppm (+14°F to +140°F [-10°C to +60°C])
Repeater Shift:	±600KHz (144MHz) ±1.6 / 5.0 / 7.6 MHz (430MHz)
Emission Type:	F1, F2, F3
Antenna Impedance:	50 Ω
Supply Voltage:	Nominal: 13.8V DC, Negative Ground Operating: 11.7 - 15.8V, Negative Ground
Current Consumption:	0.5A (Receive) 10A (TX, 144 MHz 50W) 12A (TX, 430 MHz 50W)
Operating Temperature:	-4°F to +140°F (-20°C to +60°C)
Case Size (WxHxD):	Panel: 6.3" x 2.6" x 1.3" (157 x 66 x 33.5 mm) Panel w/o knob connectors Panel: 5.5" x 1.8" x 6.0" (140 x 46 x150mm) Panel w/o knob connectors
Weight (Approx)	4.6 lbs (2.1kg) Rear Chassis.

Transmitter	
RF Power Output:	50W / 20W / 5W (Approx)
Modulation Type:	Variable Reactance F1, F2, F3
Maximum Deviation:	±5KHz (Wide) ±2.5KHz (Narrow)
Spurious Emission:	At least 60dB below
Microphone Impedance:	2KΩ

Receiver	
Circuit Type:	Double-Conversion Super heterodyne (FM/AM) Single-Conversion Super heterodyne (Radio)
Intermediate Frequencies:	1st: 49.950kHz (A Band) 2nd: 450KHz ("Left Side" Band, FM/AM) 1st: 45.450KHz (B Band) 2nd: 450KHz ("Right Side" Band, FM/AM)
Sensitivity:	1st: 50KHz (AM Radio) 1μV TYP for 12dB SINAD (174-222MHz) 5μV TYP for 10dB SN (0.5-1.710MHz, AM) 0.8μV TYP for 10dB SN (300-336MHz, AM) 2μV TYP for 12dB SINAD (76-108 MHz, WFM) 0.25μV TYP for 12dB SINAD (336-400MHz, FM) 0.8μV TYP for 10dB SN (108-135.995MHz, AM) 0.2μV for 12dB SINAD (400-480MHz, FM) EXP 0.2μV for 12dB SINAD (136-173.995MHz) 0.5μV TYP for 12dB SINAD (480-520MHz, WFM)
Squelch Sensitivity:	0.13μV (144/430MHz Band)
Selectivity (Typical):	(Wide) More than 10KHZ/6dB Less than 30.KHz/60dB (Narrow) More than 6KHz/6dB Less than 20.KHz/60dB
AF Output:	8W @ 4Ω for 10% THD (@ 13.8 V) BTL EXP SP 4W @ 4Ω for 10% THD (@ 13.8V) Normal EXP SP
AF Output Impedance:	4-16Ω