



DESCRIPTION

MRC-110/E marine radio communication system is an HF marine radio with the DSC (Digital Selective Call) capability for sending emergency messages used in various types of military ships. This radio consists of three sections that are Transmitter/Receiver (T/R), Control Unit (CU) and antenna Matching Unit (MU). T/R and CU units are installed inside the ship cabin and the MU unit is installed on the ship deck. Output power of the radio is 150W and the control unit could be separated from the T/R for controlling the system remotely via a pair field wire.



| General specifications | |
|---|---|
| Frequency range | 1.6~29.9999 MHz |
| Frequency channel spacing | 100Hz |
| Number of preset channels | 100 channels |
| Input supply | 24-30 VDC |
| Data/control interface | RS-232 |
| Modulation type | SSB-CW,AM-SSB |
| ALE | ✓ |
| Frequency hopping | ✓ |
| Transmitter specifications | |
| Output power | LP: 10W, 20W, 30W MP: 40W, 60W, 80W HP: 100W, 120W, 150W |
| Harmonic rejection | 50dB |
| Spurious signal rejection | 50dB |
| Frequency stability | ±2PPM |
| Receiver specifications | |
| Sensitivity | SSB: 1μV (15dB SINAD) SSB (CW): 1μV (20dB SINAD) AME: 6.75μV (15dB SINAD) |
| Communication type | Half-Duplex, Simplex |
| Audio output | at least 10mW on 300Ω load |
| IF/image rejection | 70dB |
| Physical & environmental specifications | |
| Dimension (H×W×D) | T/R: 400×300×150 mm CU: 200×250×60 mm MU: 350×250×80 mm |
| Operating temperature | -25°C ~ +65°C |
| Storage temperature | -40°C ~ +70°C |
| Environmental standard | MIL-STD-810F |