VRC-131/E
Vehicular Radio Communication System

DESCRIPTION

VRC-131/E vehicular radio communication system is a HF (1.6 ~ 30 MHz) radio with maximum 150W power. This radio is designed and manufactured to be installed inside various types of military vehicles and can be operated from stationary installations by substituting some of its accessories.
In order to protect communication sight and operators in stationary operation, the radio can be controlled remotely by disconnecting it from the control unit using a pair field wire through up to 4km distance. From physical structure and technical specifications, this radio is similar to the MRC-130 and MRC-132 marine radio communication systems optimized for ground operation. VRC-131/E is compatible with the HF analogue radios as well as its VRC family.

General specifications	
Frequency band	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, AME-SSB
ALE	✓
Frequency hopping	✓
Receiving specifications	
Receiving sensitivity	SSB: 1μV (15dB SINAD) SSB(CW): 1μV (20dB SINAD) AME: 6.7μV (15dB SINAD)
Communication type	Half Duplex, Simplex
Audio output	minimum 10mW on 300Ω load
IF/image rejection	70dB
Transmitting specifications	
Output power	Low power: 10W, 20W, 30W Medium power: 40W, 60W, 80W High power: 100W, 120W, 150W
Harmonic rejection	50dB
Spurious signal rejection	50dB
Frequency stability	±2PPm
Physical & environmental specifications	
T/R Dimension (H×W×D)	400×300×150 mm
CU Dimension (H×W×D)	200×250×60 mm
MU Dimension (H×W×D)	350×250×80 mm
Operating temperature	-25°C ~ +65°C
Storage temperature	-40°C ~ +70°C
Environmental standard	MIL-STD-810F