

# JRC TWO-WAY VHF RADIOTELEPHONE ON-BOARD COMMUNICATION EQUIPMENT



## JHS-7

*Designed in compliance with the GMDSS carriage requirements under the latest SOLAS.*

*The JHS-7 is a hand-held portable VHF radiotelephone for on-scene, life-saving two-way communication between survival craft, between survival craft and ship, and between ship and rescue boat in accordance with SOLAS convention.*

*The JHS-7 is of heavy duty design for use in maritime severe conditions and equipped with 13 single-frequency voice channels including Channel 16 (156.800 MHz.), providing 0.25 to one watt of transmitted power. This equipment can be used as an on-board communication equipment.*



### ■ FEATURES

- **Thirteen Operating Channels**  
Thirteen single-frequency voice channels are provided including Channel 16 for calling and safety which can also be selected easily by an independent switch.
- **Heavy Duty Design**  
The JHS-7 is designed to operate normally for 8 hours in extremely severe operating conditions.
- **Single-Handed Operation**  
The control knobs and switches are in an easy-to-operate arrangement to ensure single-handed operation.
- **Mechanical Ruggedness**  
The JHS-7 is designed to withstand a 1-m drop onto a hard surface.
- **Watertightness**  
The JHS-7 is designed to be waterproof to ensure its normal use even in rainy or water splash conditions.
- **Sunlight resistance**  
If the JHS-7 is long exposed to the sunlight, it will not be damaged because it is composed of specially selected components and materials.
- **Low Power Consumption**  
The JHS-7 is designed to minimize its power consumption and to maximize its operating time. Its sleep mode technique ensures more than 8 hours of its operation time.
- **High Reliability**  
Highly reliable ICs, transistors, LEDs and other surface-mount devices are used.
- **Stable Operation**

MPT JAPAN TWO-WAY RADIOTELEPHONE APPARATUS  
APPROVED TYPE LPS5NM-0.8-13-1  
A APPROVAL NO. L91001  
APPROVAL DATE Apr.5,1991

MPT JAPAN ON-BOARD COMMUNICATION EQUIPMENT  
APPROVED TYPE FFM3NM156.3/156.9-0.8F3E13-1  
APPROVAL NO. F91016  
APPROVAL DATE Apr.8,1991

MOT JAPAN TWO-WAY RADIOTELEPHONE APPARATUS  
TYPE APPROVAL NO. 3463  
APPROVAL DATE Mar.20,1991



*Japan Radio Co., Ltd.*

## ■ SPECIFICATIONS

### ● GENERAL

Standard: IMO Res.A.569(14), A.605(15);  
Radio Regulations Appendices 18 and 19

Operating channels: CH 16 (156.800 MHz)  
CH 6 (156.300 MHz)  
CH 13 (156.650 MHz)  
CH 15 (156.750 MHz)  
CH 17 (156.850 MHz)  
CH 67 (156.375 MHz)

Optional channels: Seven simplex channels selectable from a range of 156.300 to 156.875 MHz

Channel spacing: 25 kHz

Channel selection: CH 16 - by one-touch selector switch  
Other CHs - by a rotary dial knob

Local oscillator: PLL frequency synthesizer

Frequency stability: Within 10 ppm (TX)

Communication mode: Simplex

Class of emission: G3E/F3E

Type of antenna: Vertical, omnidirectional type integrated antenna

Operating time: More than 8 hours at the duty cycle of 1: 9

Integrated battery: 7.2 VDC, 1000 mAh

Operating temperature: -20° to +55°C

### ● TRANSMITTER

Effective radiated power: 0.25 to one watt

Type of modulation: Variable reactance frequency modulation

Frequency deviation: ±5 kHz max.

Pre-emphasis: 6 dB (+1 dB, -3 dB)/octave

AF harmonic distortion: Better than 10 %

### ● RECEIVER

Receiving system: Double superheterodyne

AF output power: 200 mW or more at 10 % THD

De-emphasis: -6 dB (+1 dB, -3 dB)/octave

Maximum usable sensitivity: +6 dB $\mu$ V or less (20 dB noise quieting)

Selectivity: 12kHz or more at 6dB attenuation  
25kHz or less at 70dB attenuation

Frequency Stability: Better than 0.001%

Spurious response rejection: 70 dB or more

Intermodulation response: 70 dB or more

Blocking: 90 dB $\mu$ V or more

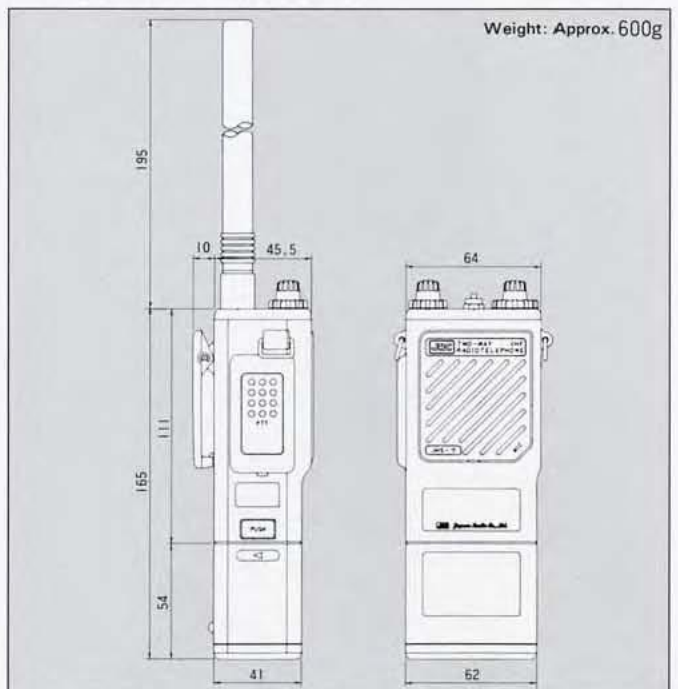
## ■ STANDARD COMPONENTS

Item	Model	Q'ty	Remarks
Radiotelephone	JHS-7	1	Incl. antenna and battery
Battery Pack	NBB-389	1	
Carrying Strap	MPXP02384	1	
Test Data		1	
Instruction Manual		1	

## ■ OPTIONS

Item	Model
Battery Charger	NBA-4141
Battery Pack	NBB-248
Earphone	6UMJD00004
External Speaker, Microphone	6UMJD00029
Carrying case	MPXP02368
Ledge for three Battery chargers (Horizontal type)	NZB-90
Ledge for four Battery chargers (Horizontal type)	NZB-91
Ledge for five Battery chargers (Horizontal type)	NZB-92
Ledge for three Battery chargers (Vertical type)	NZB-93
Ledge for four Battery chargers (Vertical type)	NZB-94
Ledge for five Battery chargers (Vertical type)	NZB-95

## ■ OUTLINE DRAWING



Specifications subject to change without notice.

For further information, contact:

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Since 1915

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**ISO 9001**

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Certificate No. FM 30249



18EM