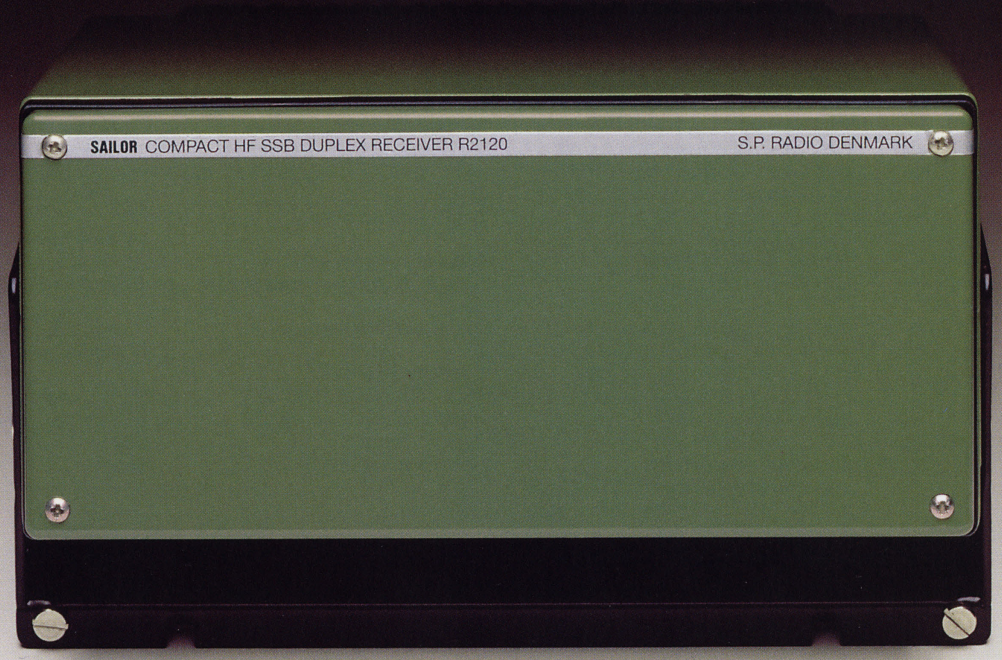
SAILOR COMPACT HF SSB PROGRAMME



DUPLEX RECEIVER R2120 FOR RE2100

Developed and produced by S.P. RADIO A/S, Denmark -
Europe's leading manufacturer of maritime radio communication equipment

The DUPLEX RECEIVER R2120 has been designed to meet all requirements for duplex communication together with SAILOR 250-600-1200W systems

- small, compact, modular-designed unit
- nylon-coated metal cabinet
- simple operation and installation
- operated from RE2100
- professional specifications
- frequency range 1.6 MHz to 30 MHz
- SSB (USB and LSB) reception modes
- R2120 can be mounted hidden away

SAILOR COMPACT HF SSB

S.P. RADIO A/S · AALBORG · DENMARK

SAILOR COMPACT DUPLEX RECEIVER R2120

TECHNICAL DATA

SYSTEMS SPECIFICATION.

Performance specifications:
In compliance with ETSI, CEPT, FTZ and FCC.

Modes of operation:
SSB (J3E). Upper and lower sideband.

Remote control:
The SP-BUS is an interrupt command/ response data bus. Type NRS, baud rate 4800, format E81. Optional interface to RS 232C, with interface unit.

Power failure control:
All data will be restored when power supply returns.

RECEIVER SPECIFICATIONS.

Receive System:
Double conversion super heterodyne, 1st IF 70 MHz 2nd IF 10.73 MHz.

Frequency Range:
1600 kHz to 29999.9 kHz.

Clarifier Range:
± 150 Hz in 10 Hz step.

Antenna impedance:
50 Ohm.

Frequency Stability:
Better than 0.34 ppm.

IF selectivity:
Pass band ripple better than 2.5 dB.
6 dB bandwidth at 350 Hz to 2700 Hz.
60 dB bandwidth at -62 Hz to 3975 Hz.

Sensitivity:
8 dB/µV for 20 dB SINAD.
(CEPT method of test.)

Adjacent Channel:
48 dB at + 4.0 kHz and - 1.0 kHz.
60 dB at + 5.0 kHz and - 2.0 kHz.
71 dB at + 8.0 kHz and - 5.0 kHz.
(CEPT method of test)

Automatic gain control:
Less than 2 dB variation of detector output level for 90 dB input signal variation (0 dB/µV to 90 dB/µV).
Fast attack time and slow decay time.

Manual gain control:
Dynamic range better than 100 dB.

Blocking:
With wanted signal level at 60 dB/µV:
Better than 120 dB for unwanted signals more than 20 kHz away from the wanted signal.
With wanted signal level at Maximum Userable Sensitivity:
Better than 100 dB for unwanted signals more than 20 kHz away from the wanted signal.
(CEPT method of test).

Intermodulation:
Third order intercept point better than 8 dBm.
(CEPT method of test).

Spurious rejection:
IF: Better than 85 dB.
Image: Better than 100 dB.
Others: Better than 80 dB.
(CEPT method of test).

Spurious Emission:
Less than 1 nW at antenna connector.

Audio Power:
0 dBm into 600 ohm.

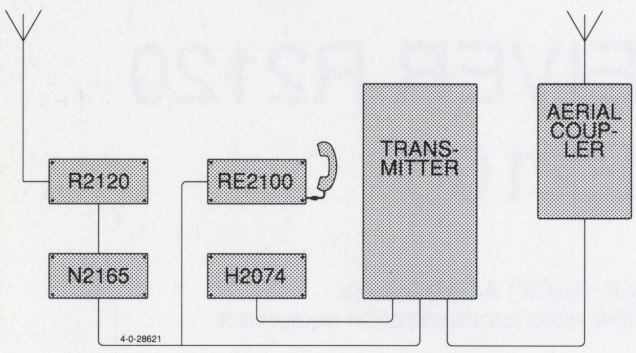
GENERAL.

DC power source:
+18V DC ± 5%, 0.3 Amp.
-18V DC ± 5%, 0.1 Amp.
+9V DC ± 5%, 0.3 Amp.

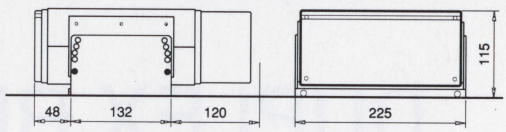
Ambient temperature:
-15°C to 55°C operating.
-20°C to 70°C storage.

Relative humidity:
95% non-condensing.

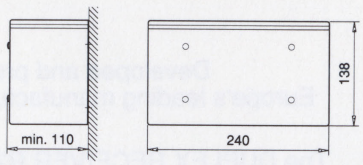
Vibration:
CEPT and MPT 1204.



R2120:
Weight: 3.7 kg Width: 225 mm
Depth: 299 mm Height: 115 mm



N2165:
Weight: 4.0 kg Width: 240 mm
Depth: 110 mm Height: 138 mm



Specifications subject to change without further notice.

S.P. RADIO A/S

PORSVEJ 2 • DK-9200 AALBORG SV • DENMARK
TEL. INT. + 45-9818 0999 • TELEX 69 789 SPRAD DK • TELEFAX INT.+ 45-9818 6717