

SP-102

EXTERNAL SPEAKER

The SP-102 is a high fidelity audio transducer incorporating manual frequency tailoring specifically intended for amateur and general communications modes, as well as for broadcast listening, including wideband functions for music and FM reception. Independently adjustable low-cut and high-cut filters offer twelve possible audio response configurations selectable from the front panel, enabling the operator to match the audio to his ear under all conditions and modes. Two separate inputs are possible, which can then be selected by a front panel switch. Output for headphones is also provided on the front panel, so that the frequency tailoring capability of the SP-102 may also be used with separate headphones.

Filter Operation

The low-cut filter selector includes two filter positions in addition to the "NORM" position, while the high-cut filter selector includes three, plus "NORM". The response graph on the front panel indicates which combination of positions to use for each mode being received.

- AM, FM These wideband modes usually call for maximum audio bandwidth and maximum fidelity. Set both filter selectors to NORM. However, should very low or very high frequency interference appear due to nearby stations, manmade or atmospheric noise, adjust the filter selectors accordingly to maintain pleasant reception.
- SSB For the most natural sounding reception of these signals set the LOW selector to the NORM position, and the HIGH selector to position 1. Again, under crowded band conditions or high noise levels it will be advantageous to reset these controls for best overall reception.
- CW In this narrow mode the LOW selector should be set to position 2 and the HIGH selector to position 3, resulting in a narrow audio response centered around 600 to 700 Hz. This filter characteristic is useful for CW reception with receivers that do not include narrow filters in their IF circuits, as well as ideal for cutting any residual internally generated noise from the latter stages of receivers using very narrow CW filters.

SPECIFICATIONS

Speaker Element:

Diameter 120 mm
 Power Rating 3 watts
 Impedance 8 ohms
 Frequency Range 100 – 12000 Hz

Filter Circuit Selections

LOW 1	below 300 Hz	(-6dB/octave)
		below 600 Hz	(-6dB/octave)
HIGH 1	above 2.4 kHz	(-6dB/octave)
		above 1 kHz	(-6dB/octave)
		above 700 Hz	(-6dB/octave)

General:

Case Dimensions (HWD) 129 x 200 x 306 (mm)
 Weight 2.2 kg