



## **Series Seven Variable Pattern Microphones**

Series Seven microphones from Josephson independently sample the pressure and pressure gradient components of sound, providing separate outputs so that the mixer can choose the directional pattern by combining different ratios of these two signals. This gives unprecedented flexibility, as the "reach" of the mic can be adjusted in use. Mixing the two signals equally yields a cardioid—using a little more pressure than gradient makes a "wide" cardioid, subcardioid or hypocardioid. Using a little more gradient than pressure makes a hypercardioid or supercardioid. The pressure signal by itself has an omnidirectional pattern, while the gradient signal has a figure-8 pattern. The two signals can even be recorded on separate tracks, so the pattern can be selected in mixdown. Pattern control is only one advantage of this technique. Applying different equalization or dynamic control to the two signals makes entirely different mic characteristics—for instance the warmth of a gradient mic used close up for vocals might be combined with the transparency of a pressure mic in the highs, by rolling off the highs in the gradient signal and the lows in the pressure signal before they are combined.

The basic **C700A** includes two capsules in one housing, a 16mm pressure element similar to the KA11N capsule in the Series Six, and a 26mm gradient capsule. Completely neutral electronics, using the same circuit found in the Series Six, are provided for each signals.

The **C700S** microphone has three capsules—one 16mm pressure element, mounted between two 26mm gradient elements which are at right angles to each other. The gradient capsules face 45° toward left and right, while the pressure capsule faces forward. Any coincident stereo pickup can be derived from mixing these three signals together, and like the C700A, the signals can be recorded individually and all aspects of image width and pattern control may be adjusted in the mixdown.

The capsule assembly in the Series Seven is internally shock mounted, so that the mic may be attached directly to a stand through its yoke mount without any external accessories. The mics are available in satin nickel or black finish.

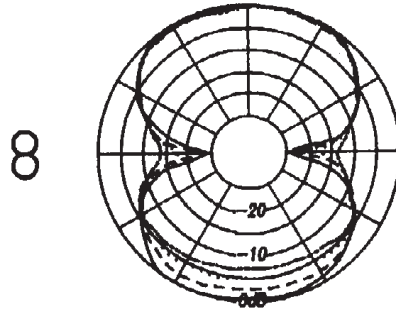
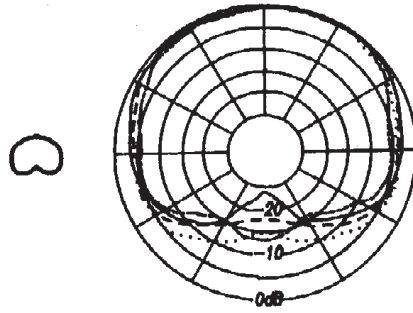
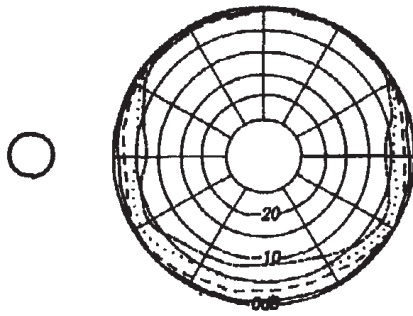
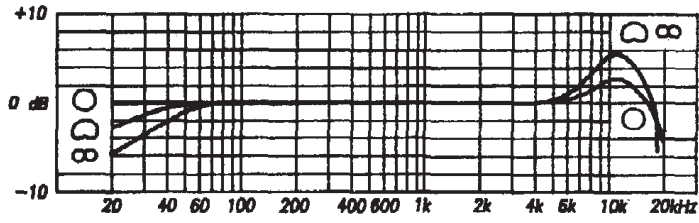
### **Specifications common to all Series Seven**

Frequency response within  $\pm 2$  dB from the curves shown. Output level, nominal 15 mV/Pa. Noise level, nominal 15 mV/Pa. Operates from P48 phantom power. Special versions and matched pairs on request.





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- 1kHz
- 2kHz
- - - 5kHz
- · · 10kHz
- · - 15kHz