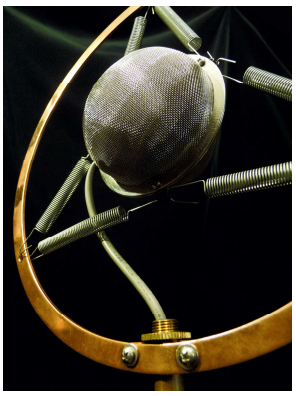
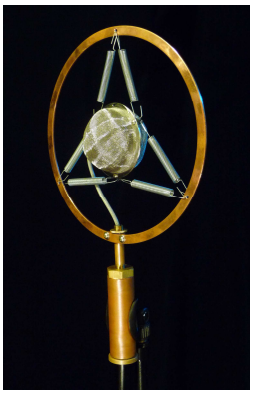
Ear Trumpet Labs

"Josephine" model microphone description and specifications

Josephine is a medium-large diaphragm (26mm) condenser microphone designed for live vocal and ensemble use. The design features a spherical stainless steel mesh headbasket spring-suspended in a large copper ring. The sculptural design is reminiscent of early broadcast microphones, and is made largely from standard hardware elements. The head basket incorporates a very effective silk and foam pop filter as well as Sorbothane shock and vibration damping to minimize handling noise.



The capsule is a Chinese-made electret condenser with additional acoustic damping. Capsules are individually tested and selected – roughly 30% of capsules are rejected for not meeting design criteria. The circuit is a transformerless FET with fully balanced output and EMI noise suppression. Other electrical components in the signal path are highest quality metal film resistors, polypropylene and polystyrene capacitors, and individually tested, hand-matched and biased transistors and JFETs.



The circuit includes moderate bass rolloff to compensate for proximity effect, and high frequency EQ to avoid harshness and help control feedback. The cardioid polar pattern, headbasket design, and tuned electronics all work together to make a very stable live mic with an extremely natural sound and good feedback rejection. Josephine is optimized for use by singers or acoustic ensembles from 6" to 48" away. The styling, form-factor, and sound are ideal for period swing or jazz vocalists or single-mic techniques with bluegrass or traditional musicians, with significantly better feedback rejection than the LDCs typically used in these applications.

Sensitivity: 12 mv/Pa
Noise Floor: 23 db(A)
Output Impedance: 150 ohms