C705 Studio Microphone

The C705 is a versatile studio microphone using a large diameter, center-supported single diaphragm cardioid capsule derived from our C715, and the discrete FET cascode input circuit and symmetrical balanced transformerless output circuit of the C716. The capsule, using a 5 micron gold-metallized diaphragm and precision machined internal surfaces, provides a smooth and very extended high end, and the enhanced proximity effect characteristic of single-diaphragm mics. This combination provides a new range of control for vocal pickup without sibilance, with a variety of tone colors possible by careful selection of distance and angle to the microphone. It's also excellent for detailed instrument pickup without the harshness typical of many large-diaphragm mics, and works well with a variety of preamps and input stages, due to its low output impedance.

The housing is made of case-hardened steel with a unique offset grille support structure that greatly reduces internal reflections. The entire capsule assembly is internally shockmounted, so the microphone can be attached directly to a stand through its yoke mount. The black finish from the hardening process is very rugged for long life in studio and stage applications.

The design of the C705 includes the best parts of several Josephson microphones, at a lower cost due to using a cardioid-only capsule, a steel housing with a rugged industrial finish rather than a cosmetic plated finish on brass, and an output connector on the microphone body rather than an attached output cable.

C705 Specifications

Pressure-gradient condenser microphone transducer
Cardioid directional pattern
Frequency range 20-20,000 Hz
Sensitivity 15 mV/Pa
Equivalent noise level <16 dB SPL, A weighted
Overload sound level 130 dB SPL
P48 phantom power, 5.5 mA
Diameter 63 mm (100 mm wide at yoke), length 261 mm
Weight 1.2 kg
Output connector 3-pin XLR

JOSEPHSON ENGINEERING, Inc. • 329A Ingalls St., Santa Cruz Calif. 95060 USA (831) 420-0888 www.josephson.com