



## Josephson Engineering, Inc. Microphone Warranty

Josephson microphones are warranted to be free of defects for five years from the date of original purchase. If purchase documents are not available, the warranty period begins when the microphone was shipped from the factory. Josephson Engineering will, at its option, repair or replace any microphone that fails, providing that it is returned to the factory prepaid and has not been abused or altered.

There are no user-serviceable parts inside Josephson Engineering microphones. Disassembling a Josephson microphone will void its warranty.

For service information please contact Josephson at +1-831-420-0888, or see [www.josephson.com](http://www.josephson.com)

### EU Regulatory Compliance

Josephson Engineering, Inc. certifies that C705 microphones bearing the "CE" mark conform at the time of shipment to the applicable requirements of the European Union directives as follows:

Machinery 93/68/EEC    Exempt – passive sensor  
Low Voltage 93/68/EEC    Exempt – passive sensor  
EMC 93/68/EEC    Exempt – passive sensor

RoHS 2002/95/EEC    Compliant for Hg Cd Cr6 Pb and PBDE



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## C705 Studio Microphone

The Josephson Engineering **C705** microphone combines a cardioid-only version of the center-anchored, large single diaphragm capsule used in the C715 with the transformerless active balanced audio output circuit of the C700 series. No compromises are made in the sonic quality of the circuit or the components used to build it, while a somewhat lower cost is realized through using a steel housing with a rugged industrial finish rather than the brass housing and plated finish of our other mics.

The capsule, using a 5 $\mu$ m 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. Users should experiment with proximity effect to get an idea of what to expect, it's very different from the usual dual-diaphragm side address studio mic. Proximity effect also changes greatly with direction, so changing the angle of the mic just a few degrees will change the low frequency sound color.

Because of the limited power budget imposed by P48 phantom power, it takes some time for the **C705** to reach full operating performance. The microphone becomes operational about ten seconds after application of power, but as the internal power supplies become stable, there may be some drift in sensitivity. The microphone should be allowed to operate for 5 minutes before being used for critical recording.

For additional overload margin, the **C705** may be used with "super phantom" powering according to IEC 61938. This is identical to normal P48 phantom but using 2.2K resistors matched to within 2 ohms rather than 6.8K. About 10 mA will be drawn in "super phantom" mode.

## 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 RMS  
Overload sound level 130 dB SPL  
P48 phantom power, 5.5 mA current consumption  
Diameter 63 mm (100 mm wide at yoke), length 261 mm  
Weight 1.2 kg  
Output connector 3-pin XLR

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