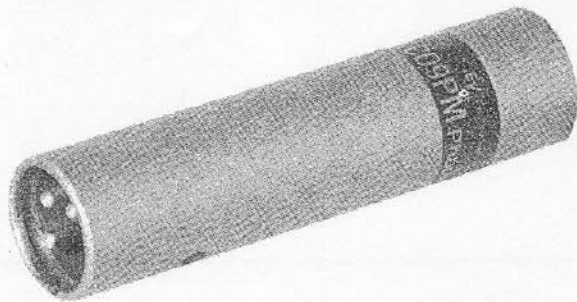


Electro-Voice®
a gulton company



Model CO9PM Power Module

SPECIFICATIONS

Operating Voltage:

—9 to 50 Vdc

Current Required:

3.9 milliamps

Converter Oscillation Frequency:

70 kHz

Output Impedance:

150 ohms nominal (balanced)

Input Impedance:

7000 ohms nominal

Microphone Source Voltage:

—5 Vdc (no load)

Microphone Source Current:

250 microamps

Case Material:

Steel

Dimensions:

19 mm (.75 in.) diameter

89 mm (3.50 in.) long

Finish:

Fawn beige micomatte

DESCRIPTION & APPLICATIONS

The CO9PM is a Phantom power supply module designed to replace the battery/transformer housing assembly portion of CO85A and CO90 electret condenser microphones. To convert a CO85A or CO90 to phantom power simply remove the battery/transformer housing as is done when installing a battery, and in its place thread on the CO9PM.

A CO85A or CO90 converted to phantom power via installation of a CO9PM will exhibit the same response, sensitivity, etc. as it did when battery powered. The CO9PM provides the converted microphone with the optimum operating voltage at all times. In critical applications where reduction in dynamic range due to battery discharge or in situations where battery replacement is inconvenient, conversion to phantom power is recommended.

If occasional battery operation is desired, the CO9PM must be removed and the battery/transformer assembly reinstalled. The CO9PM is not designed to permit battery operation and can be damaged if battery installation is attempted.

The CO9PM contains an electronic circuit that converts the positive with respect to ground voltage of a standard phantom powered system into the fixed negative with respect to ground voltage required for operation of the CO85A and CO90. In addition to the DC to —DC converter, the CO9PM contains a bifilar wound impedance matching transformer. The CO9PM also employs a device that meters the flow of current entering the DC to —DC converter. As a result, variations in supply voltage and series resistances occurring in the numerous phantom supply designs currently in use, will have no detrimental effect on CO9PM operation. Refer to Figures 1 & 2.

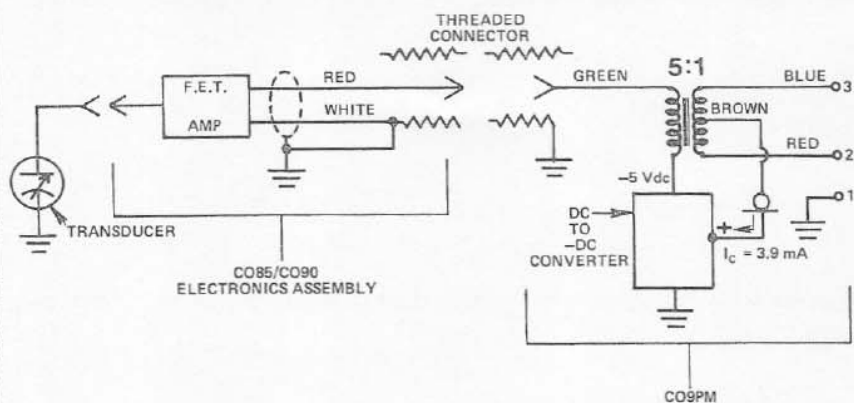


FIGURE 1 — Simplified Schematic

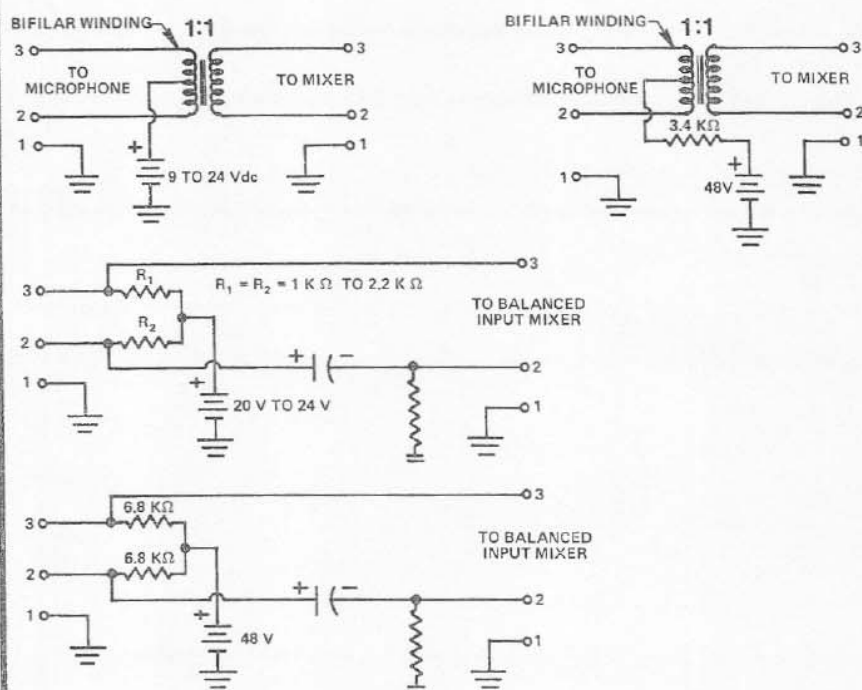


FIGURE 2 — Typical CO9PM Compatible Phantom Power Supply Circuits

WARRANTY (Limited) —

Electro-Voice Professional Broadcast, Recording, and Sound Reinforcement Microphones are guaranteed unconditionally against malfunction from any cause for a period of two years from date of original purchase. Also, these microphones are guaranteed without time limit against malfunction in the acoustic system due to defects in workmanship and materials. (Any active electronics incorporated in a microphone is guaranteed for three years from date of original purchase against such malfunction.) If such malfunction occurs, microphone will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish, appearance items, cables, cable connectors, or switches. Defect guarantee does not cover malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For repair information and service locations, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (Phone 616/695-6831) or 8234 Doe Avenue, Visalia, CA 93277 (209/625-1330,-1).

Electro-Voice maintains complete facilities for non-warranty service of E-V products.

Specifications subject to change without notice.