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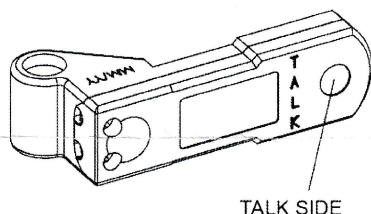
MODELS M-7/DC & M-7A MICROPHONES

Amplified Electret

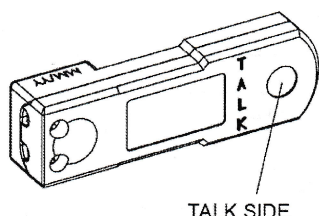
MODEL M-7/DC / 09168P-31 - MODEL M-7A / 09168P-33

Data Sheet

MODEL M-7/DC P/N 09168P-31



MODEL M-7A P/N 09168P-33



Note 1: Sensitivity Measurement Conditions

DC Bias	8 - 16 VDC
DC Bias Source Resistance	470 ohms
Overall AC Load (including Bias Resistance)	150 ohms
Frequency	1000 Hz
Acoustic Drive Source measured 0.25" (6-mm) from source	94 dB SPL (re: 20 uPA)
Microphone "Talk side" distance from acoustic source:	0.25" (6-mm)

FEATURES AND BENEFITS

- FAA certified to TSO-C139, reference RTCA/DO-214, March 1993. (See Environmental Qualification Form on following page).
- Noise canceling, electret microphones designed to operate in place of carbon and amplified dynamic mics
- Requires DC bias voltage (see table below)
- Mates with U-173/U Connector (or equivalent) using 0.035" hex socket head set screws (provided).

TECHNICAL DATA

DC Bias:	8 - 16 VDC, polarity insensitive Source Resistance: 220 - 2200Ω
Output Voltage: *See Note 1	20 - 80 mV RMS into 150Ω
Frequency Response:	Designed for optimum speech intelligibility and noise cancellation
Ambient Noise Level:	Communications can be carried on in noise levels up to 120 dB SPL (re: 20uPA) with adequate signal to noise ratio. Microphone must be zero to 1/8" from lips at corner of mouth for best signal to noise ratio (maximum noise cancellation).
MODEL M-7/DC	
Weight	0.2 oz. (5.7 grams)
Dimensions	.58 x .78 x 1.95 (15 x 20 x 50 mm)
MODEL M-7A	
Weight	0.16 oz. (4.5 grams)
Dimensions	.58 x .40 x 1.77 (15 x 10 x 45 mm)

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