



WWW.DAVIDCLARK.COM

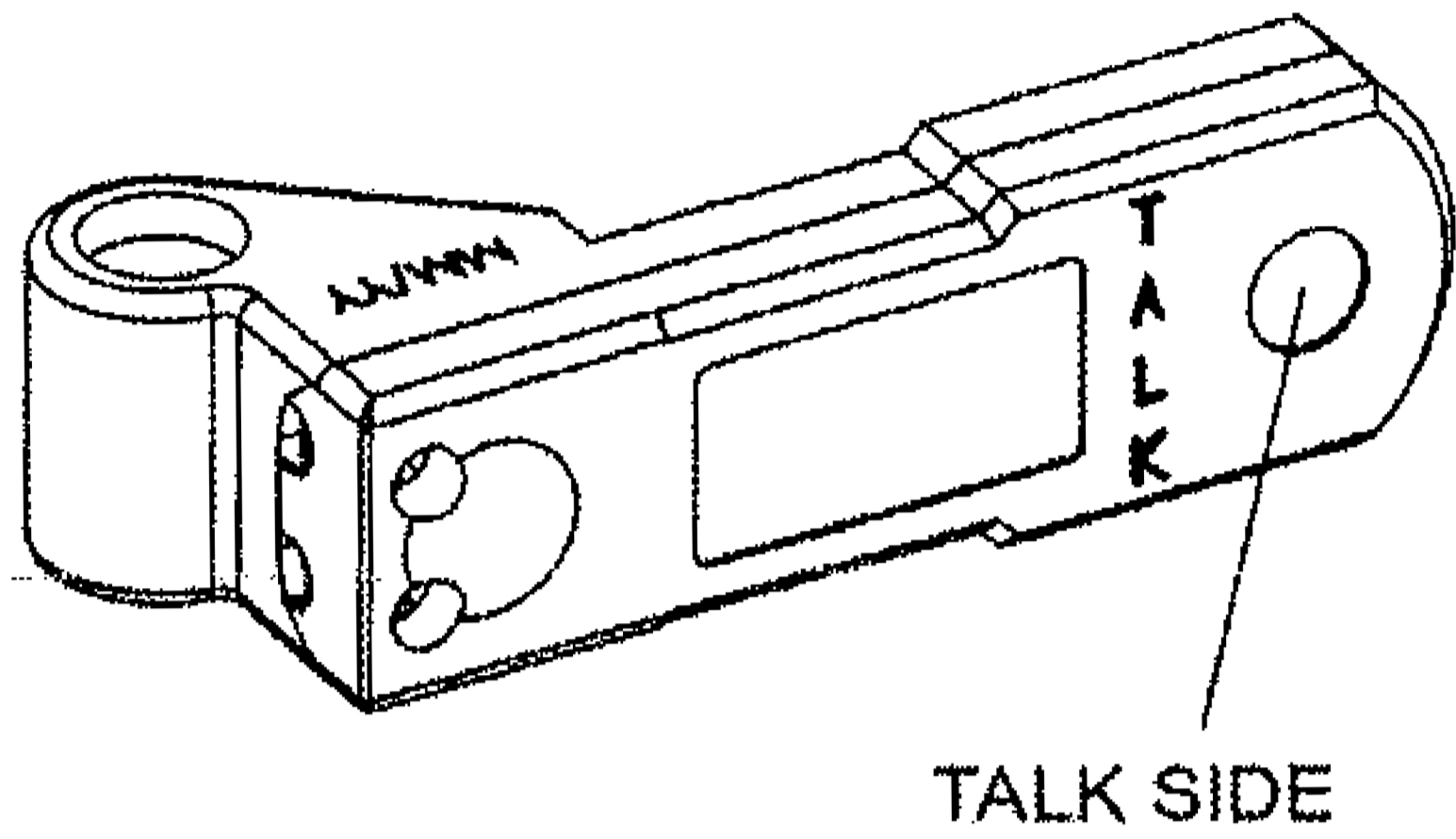
# MODELS M-7/DC & M-7A MICROPHONES

Amplified Electret

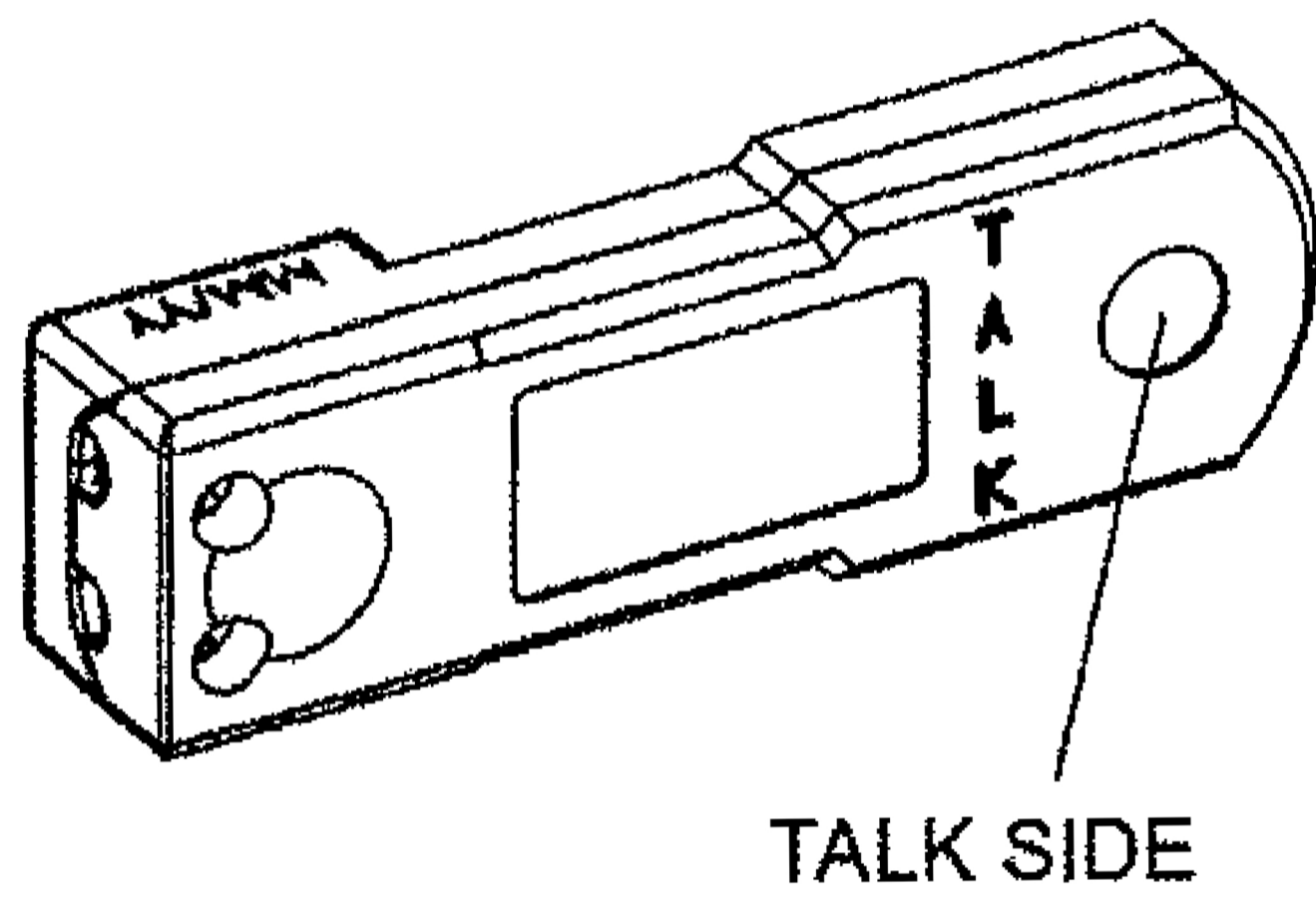
MODEL M-7/DC / 09168P-31 - MODEL M-7A / 09168P-33

Data Sheet

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



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



### 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

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

#### 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)

360 Franklin Street, Box 15054, Worcester, MA 01615-0054 • Tel: 800-298-6235 • Fax: 508-753-5827

• Email: sales@davidclark.com • Web site: www.davidclark.com



An Employee Owned  
American Company

19508P-25 (01-21)

© 2021 David Clark Company Incorporated

Technical data subject to change without prior notice.  
Current data available at www.davidclark.com