

**ENGINEERING STANDARD**DATE EFFECTIVE
6-30-93NUMBER
EST 1655**ENGINEERING DESIGN
SPECIFICATION**DATE REVISED
2-24-94PAGE
1 of 6**M9500****ACOUSTIC & ELECTRICAL SPECIFICATIONS**

Sensitivity:	96 dB for 2.83 V @ 1 m
Rated Impedance:	4 Ω
Minimum Impedance:	3.0 3.0 Ω @ 100 Hz
Impedance Curve:	See page 3
Frequency Response (-6 dB):	35 Hz to 20 kHz (half space)
Harmonic Distortion, 96 dB:	See page 4
Network Voltage Drive:	See page 5
Crossover Frequency:	650 Hz
System Polarity:	E.I.A.

SYSTEM COMPONENTS & PHYSICAL SPECIFICATIONS

Bass Transducer:	1400Nd
High Frequency Transducer:	475Nd
Horn Assembly:	H9500
Crossover Network:	N9500
Enclosure Volumes:	2.8 cu. ft., 35 Hz Tuning (upper) 4.1 cu. ft., 28 Hz Tuning (lower)
System Dimensions:	55" H x 25.13" W x 15.88" D Total Depth Including Horn - 20.5"
Weight:	84 lb, net, upper L.F. Enclosure 120 lb, net, lower L.F. Enclosure 82 lb, net, Horn Assembly

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QUALITY ASSURANCE TEST SPECIFICATIONS				
Frequency Response (System): Microphone located on Horn axis at 1 meter, minimum	± 1.5 dB, 50 Hz to 200 Hz, ± 0.6 dB, 200 Hz to 400 Hz, ± 1.5 dB, 400 Hz to 1400 Hz, ± 0.7 dB, 1400 Hz to 2800 Hz, ± 1.5 dB, 2800 Hz to 8000 Hz, ± 2.0 dB, 8000 Hz to 10000 Hz, ± 2.5 dB, 10000 Hz to 12500 Hz, ± 3.0 dB, 12500 Hz to 16000 Hz, ± 3.5 dB, 16000 Hz to 20000 Hz, All slopes must be 36 dB/ Octave	1/3 Oct. 1 Oct. 1/3 Oct. 1 Oct. 1/3 Oct. 1/3 Oct. 1/3 Oct. 1/3 Oct.		
Frequency Response (L.F. + Network):	± 1.5 dB, 50 Hz to 200 Hz, ± 0.7 dB, 200 Hz to 400 Hz, ± 1.5 dB, 400 Hz to 800 Hz, ± 2.0 dB, 800 Hz to 1200 Hz ± 2.5 dB, 1200 Hz to 2000 Hz	1/3 Oct. 1 Oct. 1/3 Oct. 1/3 Oct. 1/3 Oct.		
(H.F. + Network):	± 2.0 dB, 350 Hz to 700 Hz ± 1.0 dB, 700 Hz to 1400 Hz ± 0.7 dB, 1400 Hz to 2800 Hz ± 1.5 dB, 2800 Hz to 8000 Hz ± 2.0 dB, 8000 Hz to 10000 Hz ± 2.5 dB, 10000 Hz to 12500 Hz ± 3.0 dB, 12500 Hz to 16000 Hz ± 3.5 dB, 16000 Hz to 20000 Hz All slopes must be 36 dB/ Octave	1/3 Oct. 1/3 Oct. 1 Oct. 1/3 Oct. 1/3 Oct. 1/3 Oct. 1/3 Oct.		
Voltage Drive: L.F., 8 Ω Load:	± 0.5 dB, 50 Hz to 100 Hz, ± 0.2 dB, 100 Hz to 200 Hz, ± 0.7 dB, 200 Hz to 650 Hz, ± 1.5 dB, 650 Hz to 2000 Hz,	1/3 Oct. 1 Oct. 1/3 Oct. 1/3 Oct.		
H.F., 8 Ω Load:	± 1.5 dB, 100 Hz to 650 Hz, ± 0.5 dB, 650 Hz to 3000 Hz, ± 0.3 dB, 3000 Hz to 6000 Hz, ± 0.7 dB, 6000 Hz to 20000 Hz, All Slopes must be 36 dB/ Octave	1/3 Oct. 1/6 Oct. 1 Oct. 1/3 Oct.		
System Polarity:	LF(s) - E.I.A., HF - Reverse			
Dynamic test:	6 V. 20 Hz to 20000 Hz			
Power Test:	34.5 V, I.E.C. Shaped Noise, 8 Hours			
Transit & Environmental Test:	A.S.T.M. Tropical, Dock Tilt			







