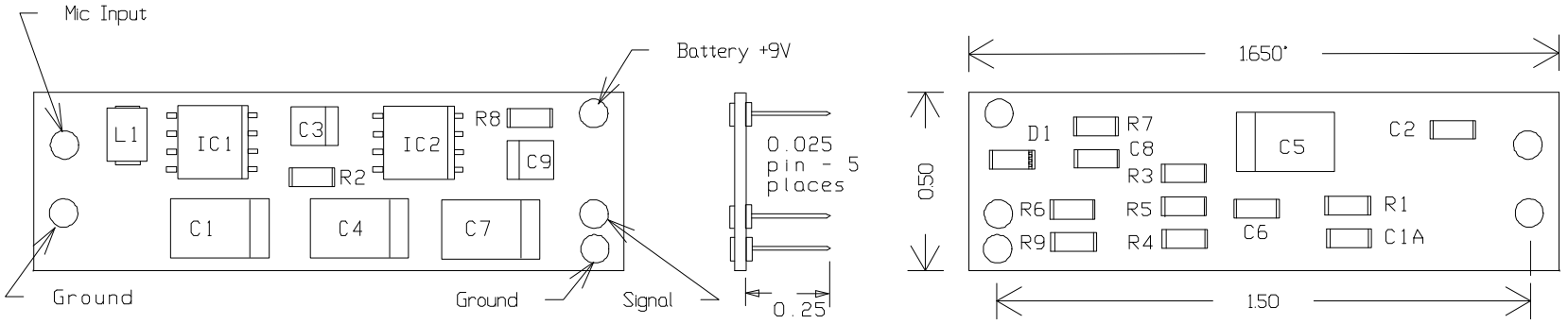

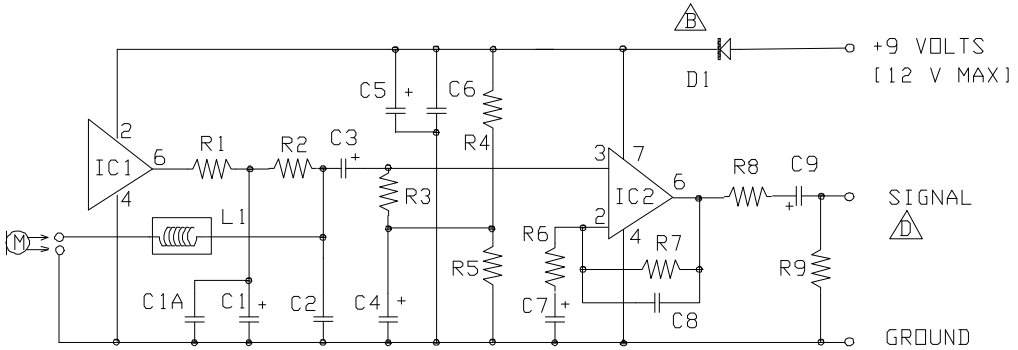

PERFORMANCE SPECIFICATIONS:

[Tested with one millivolt input signal, and 9 volt supply, or as otherwise indicated].

1) Frequency Response: -1 dB at 8Hz and 60KHz
2) Gain at 1000 Hz: 15.6 dB +/- 0.1 dB
3) DC Current Drain (w/capsule): 180 microamperes
4) Maximum Output at Clipping (1000 Hz): 2V RMS
5) Noise above 1 KHz: -115 dBV/Hz
   rising to -102 dBV at 100 Hz and -92 dBV at 25 Hz.
   Total noise, 20 KHz bandwidth: 63 microvolts.
   A-weighted, 20 KHz bandwidth: 33 microvolts.
6) Capsule excitation voltage: 3.75 volts nominal
   +/- 0.02 variation with supply from 5 to 12 volts.

Parts List for MM2-5347 Microphone Preamp

R1	1K	C1	33/16	D1	1N4148
R2	2.74K	C1A	0.018	L1	F-bead
R3	33K	C2	330 Pf	IC1	MAX438
R4	151K	C3	3.3/35	IC2	MAX402
R5	151K	C4	22/16		
R6	3.57K	C5	33/16		
R7	18.2K	C6	0.047		
R8	150	C7	22/16		
R9	100K	C8	68 Pf		
		C9	10/35		

F. Example capsule: Panasonic WM-060

E. Pins are on a 0.10 grid.

D. Max suggested loading: 10K and 0.002 uFD.

C. Amplifiers are 100% tested for current drain, frequency response and gain.

B. Polarity protection diode D1 may not be present in some units.

A. Amplifiers are ultrasonically cleaned for 5 minutes in ChemSolv ES125.

NOTES:

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Rev	Date	By	Description
B	6/22/96	rhc	rev noise specs
A	6/1/96	rhc	Initial Release

MM2-5347 Microphone Preamp

DATE 616 | BY RHC | CHECKED | PROJECT MM2 | SCALE NONE

Electret Microphone Preamplifier - 9V

MM2-5347-001 B

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Woods Hole, MA 02543-0047