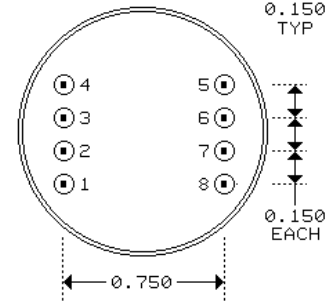
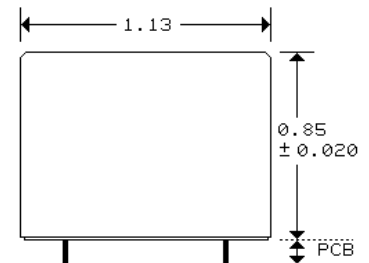
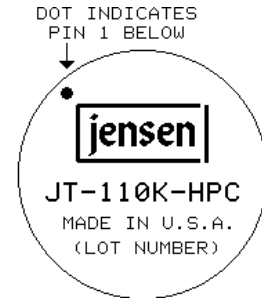
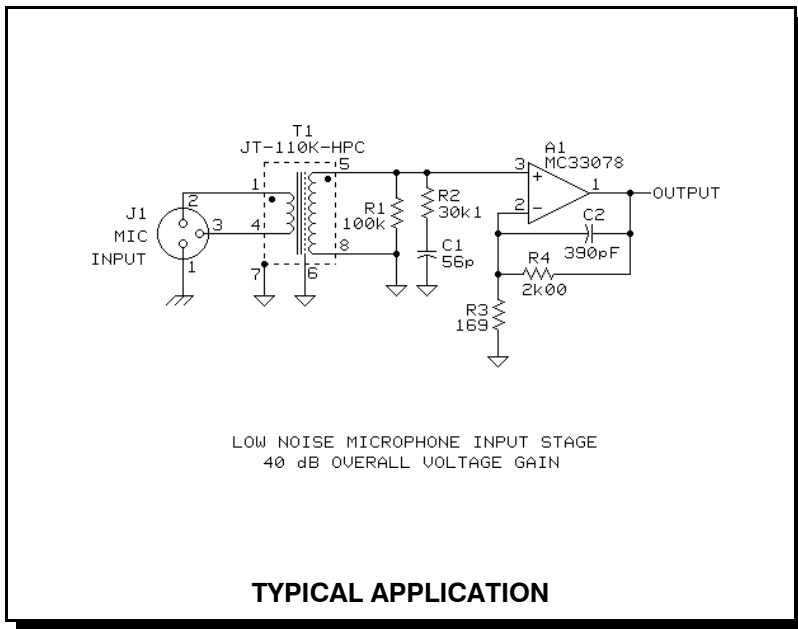


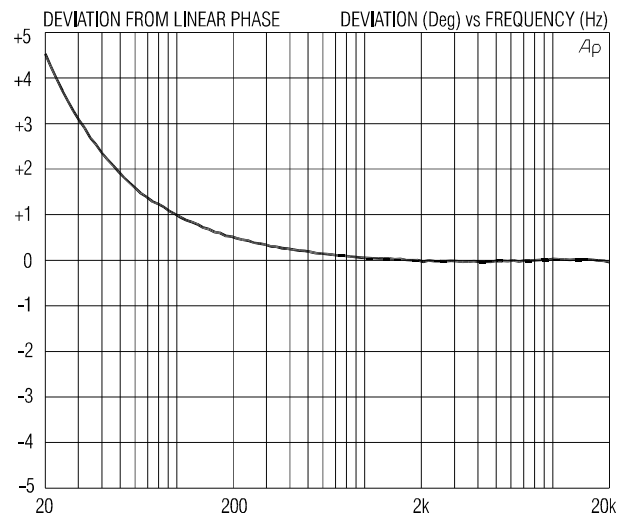
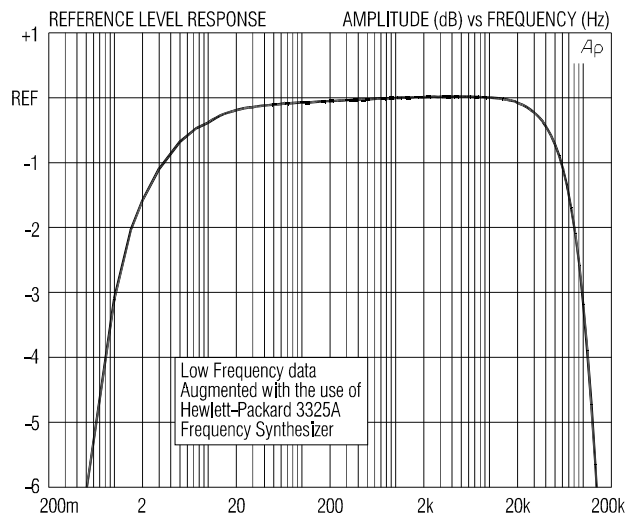
### MICROPHONE INPUT TRANSFORMER 1:8 STEP-UP FOR HIGH IMPEDANCE AMPLIFIERS

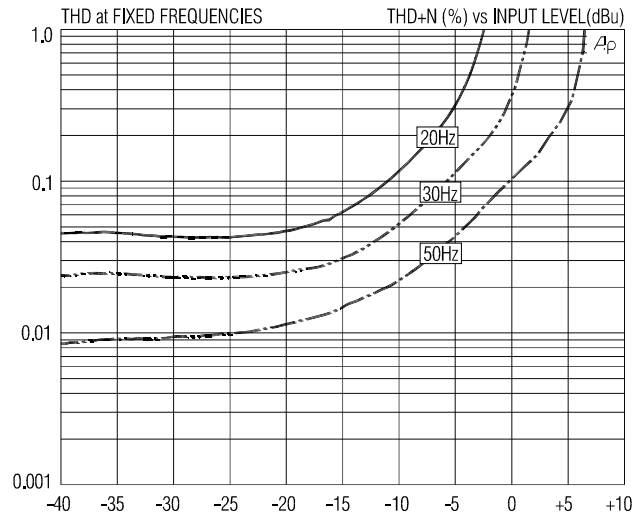
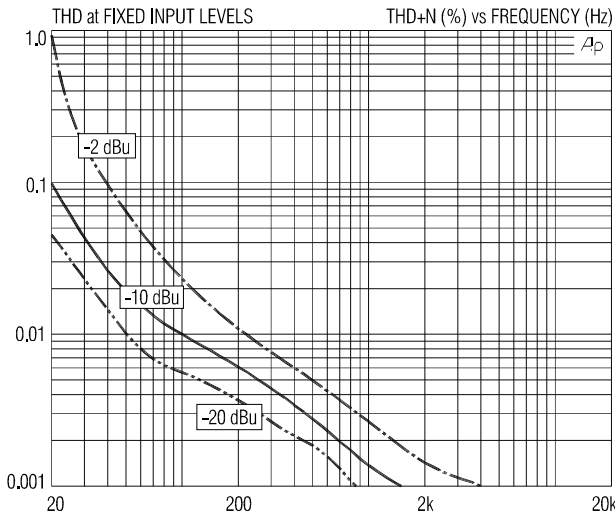
- Ideal for a variety of IC or discrete input amplifiers
- Wide bandwidth: -3 dB at 1.0 Hz and 100 kHz
- 18 dB of voltage gain with Noise Figure of 2.4 dB
- Input impedance of 1.4 kΩ for loading loss of 0.9 dB
- High common-mode rejection: 115 dB at 60 Hz

This transformer has a turns ratio which optimizes the noise performance of many IC amplifiers. Its secondary source impedance varies less than 10% from 20 Hz to 20 kHz. The primary is fully balanced and its terminals may be reversed to invert polarity, if required. A 30 dB magnetic shield package is standard.



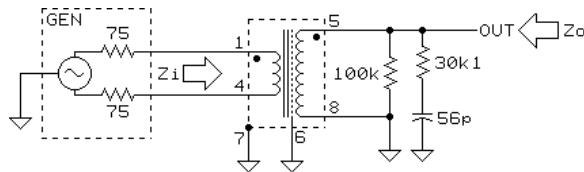
PIN NUMBERS NOT MARKED ON PART  
TERMINAL PINS 0.018 x 0.030  
PC HOLES 0.040 DIA SUGGESTED  
PART SUPPLIED WITH 5 MIL VALOX® INSULATOR  
TO ALLOW PC TRACES UNDER TRANSFORMER



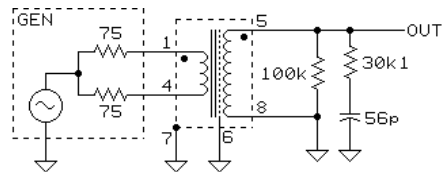


**JT-110K-HPC SPECIFICATIONS** (all levels are input unless noted)

PARAMETER	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM
Input impedance, Zi	1 kHz, -20 dBu, test circuit 1	1.40 kΩ	1.49 kΩ	1.60 kΩ
Voltage gain	1 kHz, -20 dBu, test circuit 1	17.5 dB	17.8 dB	18.1 dB
Magnitude response, ref 1 kHz	20 Hz, -20 dBu, test circuit 1	-0.50 dB	-0.19 dB	±0.0 dB
	20 kHz, -20 dBu, test circuit 1	-0.25 dB	-0.08 dB	+0.1 dB
Deviation from linear phase (DLP)	20 Hz to 20 kHz, -20 dBu, test circuit 1		+4.5/-0°	+6/-1°
Distortion (THD)	1 kHz, -20 dBu, test circuit 1		0.001%	
	20 Hz, -20 dBu, test circuit 1		0.045%	0.15%
Maximum 20 Hz input level	1% THD, test circuit 1	-3.5 dBu	-2.0 dBu	
Common-mode rejection ratio (CMRR) 150 Ω balanced source	60 Hz, test circuit 2		115 dB	
	3 kHz, test circuit 2	75 dB	85 dB	
Output impedance, Zo	1 kHz, test circuit 1		12.9 kΩ	
DC resistances	primary (pin 1 to pin 4)		28.7 Ω	
	secondary (pin 5 to pin 8)		2.96 kΩ	
Capacitances @ 1 kHz	primary to shield and case		350 pF	
	secondary to shield and case		166 pF	
Turns ratio		1:8.166	1:8.169	1:8.172
Temperature range	operation or storage	0° C		70° C
Breakdown voltage (see IMPORTANT NOTE below)	primary or secondary to shield and case, 60 Hz, 1 minute test duration	250 V RMS		



TEST CIRCUIT 1



TEST CIRCUIT 2

**All minimum and maximum specifications are guaranteed.** Unless noted otherwise, all specifications apply at 25°C. Specifications subject to change without notice. All information herein is believed to be accurate and reliable, however no responsibility is assumed for its use nor for any infringements of patents which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Jensen Transformers, Inc.

**IMPORTANT NOTE:** This device is NOT intended for use in life support systems or any application where its failure could cause injury or death. The breakdown voltage specification is intended to insure integrity of internal insulation systems; continuous operation at these voltages is NOT recommended. Consult our applications engineering department if you have special requirements.

**JENSEN TRANSFORMERS, INC., 7135 Hayvenhurst Avenue, Van Nuys, CA 91406-3807, USA**  
**(818) 374-5857 • FAX (818) 374-5856 • www.jensen-transformers.com**