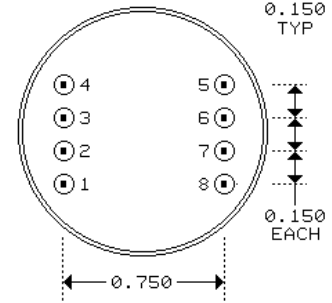
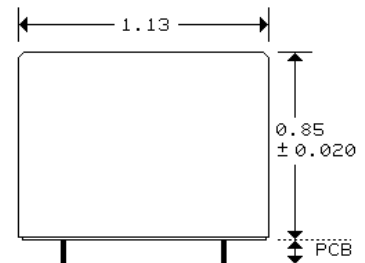
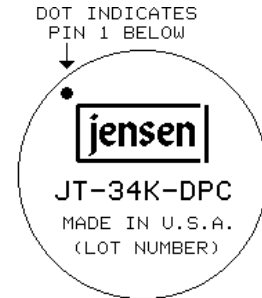


### MOVING COIL TRANSFORMER

1:37 STEP-UP FOR MC CARTRIDGES UP TO 5 Ohms

- Adds 31dB of low noise, low distortion gain to RIAA preamps
- Good bandwidth: -3 dB at 4 Hz and 180 kHz
- Good time domain performance: DLP +7° typical
- Proper loading provided by standard 47 kΩ phono input
- High common-mode rejection: 145 dB at 60 Hz

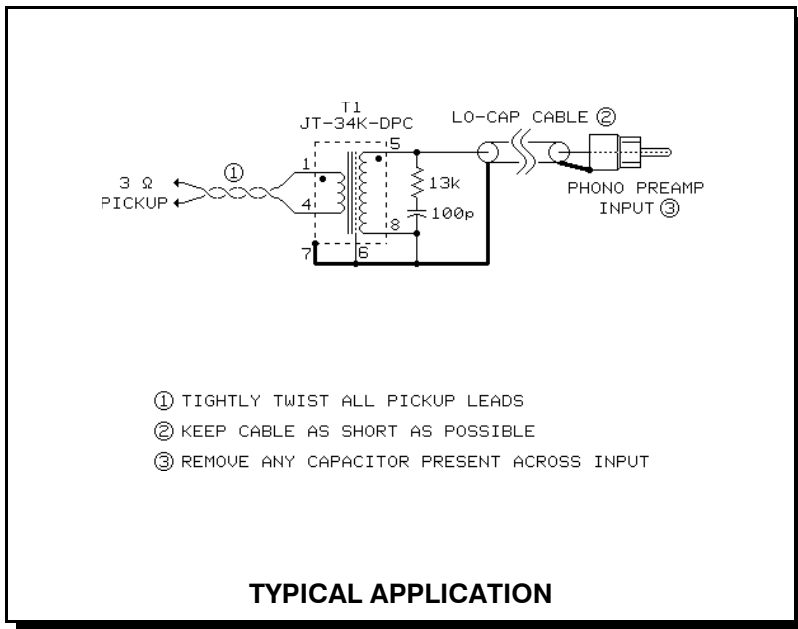
This transformer, with its 5 kΩ secondary source impedance and 31 dB (≈35x) voltage gain, provides excellent signal-to-noise with standard phono preamps. Primary connections may be reversed to invert polarity. Although the housing provides 30 dB of magnetic shielding, additional shielding is recommended.



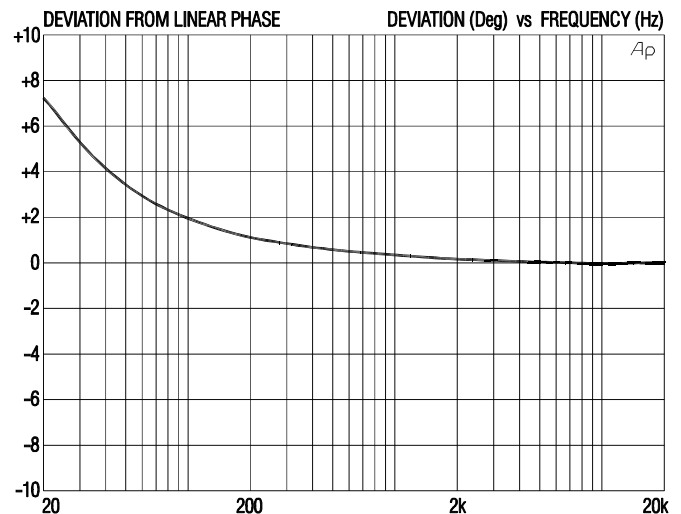
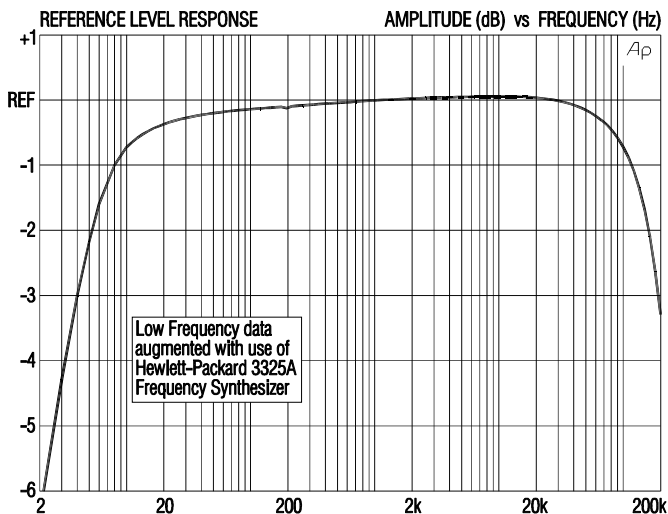
PIN NUMBERS NOT MARKED ON PART

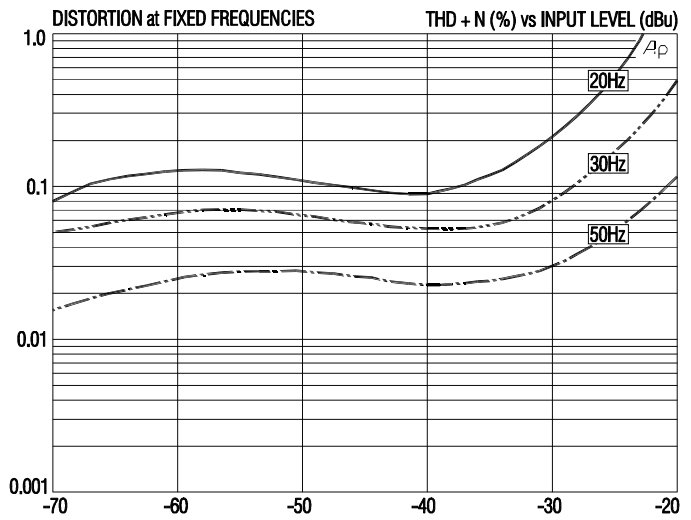
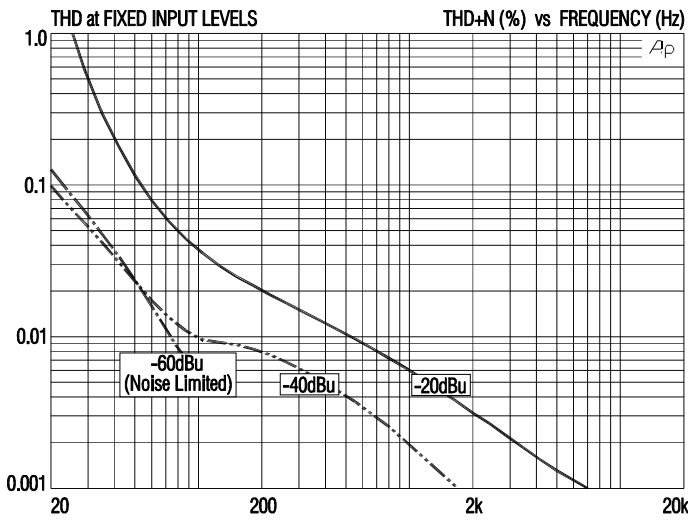
TERMINAL PINS 0.018 x 0.030  
PC HOLES 0.040 DIA SUGGESTED

PART SUPPLIED WITH 5 MIL VALOX® INSULATOR TO ALLOW PC TRACES UNDER TRANSFORMER



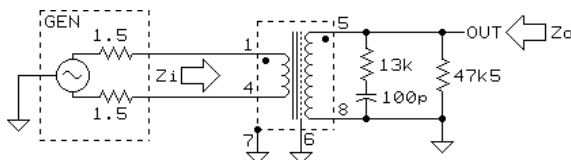
TYPICAL APPLICATION



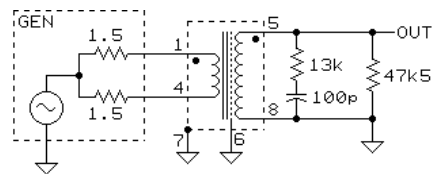


**JT-34K-DPC SPECIFICATIONS** (unless noted, all levels are input)

PARAMETER	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM
Input impedance, $Z_i$	1 kHz, -40 dBu, test circuit 1		31.5 $\Omega$	
Voltage gain	1 kHz, -40 dBu, test circuit 1	30.95 dB	31.05 dB	31.15 dB
Magnitude response, ref 1 kHz	20 Hz, -40 dBu, test circuit 1	-0.5 dB	-0.37 dB	$\pm 0.0$ dB
	20 kHz, -40 dBu, test circuit 1	-0.1 dB	-0.05 dB	+0.1 dB
Deviation from linear phase (DLP)	20 Hz to 20 kHz, -40 dBu, test circuit 1		+7°	+10°
Distortion (THD)	1 kHz, -60 dBu, test circuit 1		<0.001%	
	20 Hz, -60 dBu, test circuit 1		0.125%	0.25%
Maximum 20 Hz input level	1% THD, test circuit 1	-26 dBu	-23 dBu	
Common-mode rejection ratio (CMRR)	60 Hz, test circuit 2		145 dB	
	3 kHz, test circuit 2	90 dB	106 dB	
Output impedance, $Z_o$	1 kHz, 50 mV RMS output, test circuit 1		4.85 k $\Omega$	
DC resistances	primary (pins 1 to 4)		0.302 $\Omega$	
	secondary (pins 5 to 8)		953 $\Omega$	
Capacitances @ 1 kHz	primary to shield (pin 6) and case (pin 7)		244 pF	
	secondary to shield and case		218 pF	
Turns ratio		1:36.69	1:36.71	1:36.73
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**