

Data Sheet

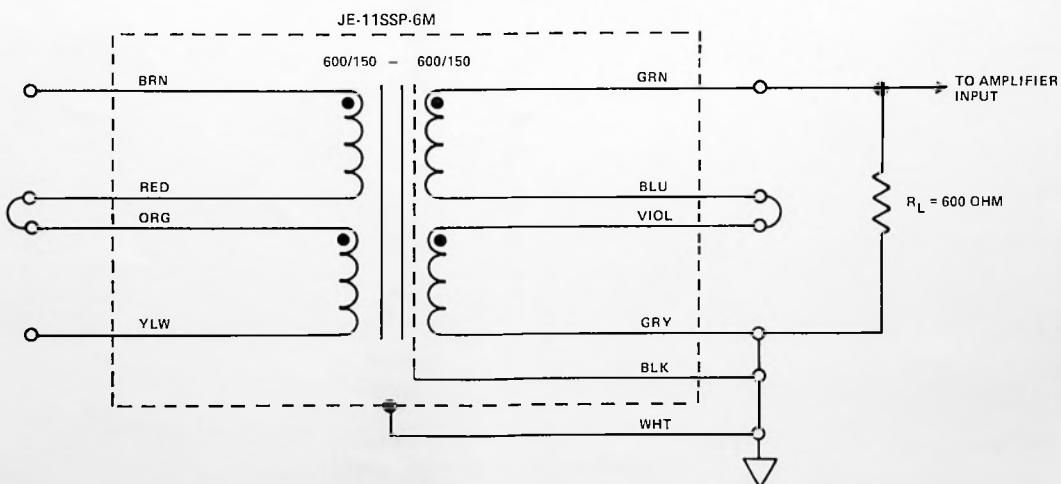
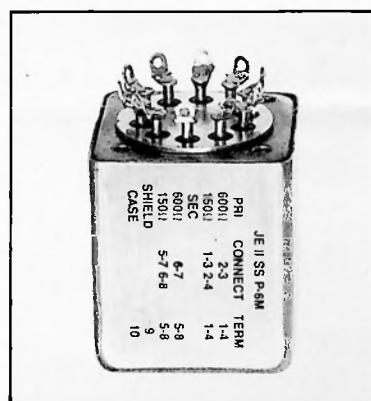
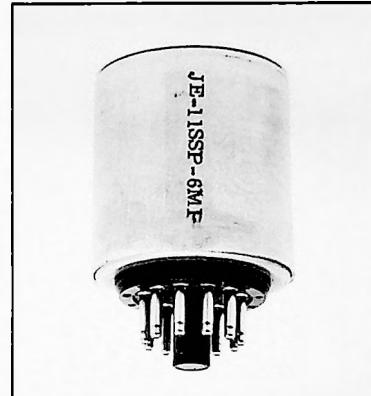
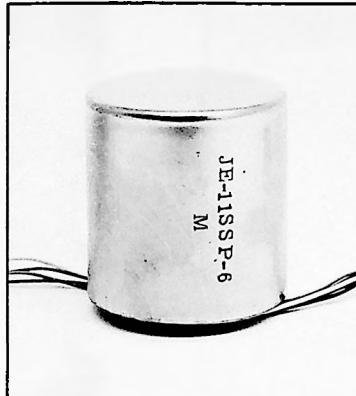
jensen transformers
By REICHENBACH ENGINEERING

JE-11SSP-6M

**LINE INPUT
TRANSFORMER**

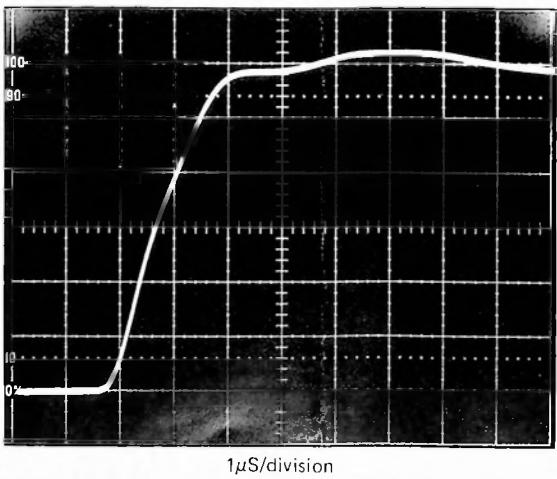
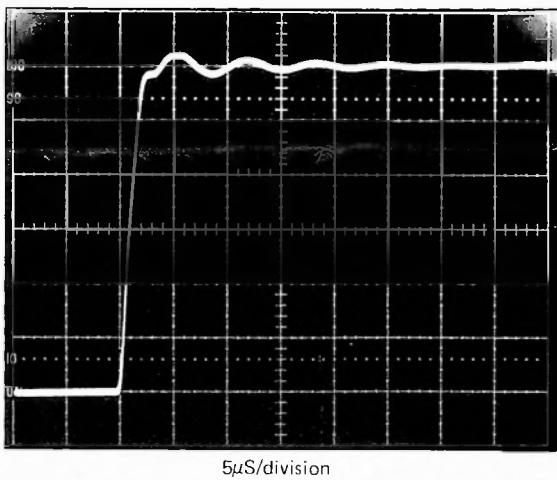
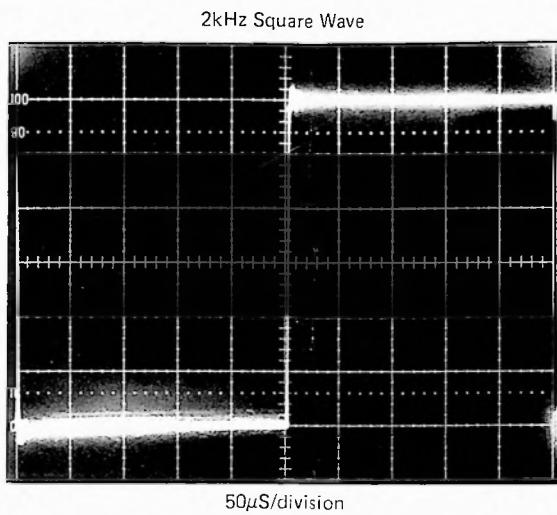
The JE-11SSP-6M is a 600/150 – 600/150 ohm (split winding) line input transformer for low input impedance circuits. It handles levels to +18dBv, Re: 0.775v @ 20Hz. Below saturation, the 20Hz THD is less than 0.035%. The high grade Nickel alloy core yields very low distortion even with source impedances up to several hundred ohms. The bandwidth is 160kHz with <3.5% overshoot.

The standard package has wire leads. An 11 pin octal-type plug version is available. A terminal package is also available, and includes four threaded inserts in each end for mounting. The same design is also available with a lower permeability Nickel core by omitting the suffix "M". This material yields 6dB more maximum level, but must be used with source impedances of 100 ohms or less to maintain low distortion at low levels.



REGARDING THE OSCILLOSCOPE PHOTOS

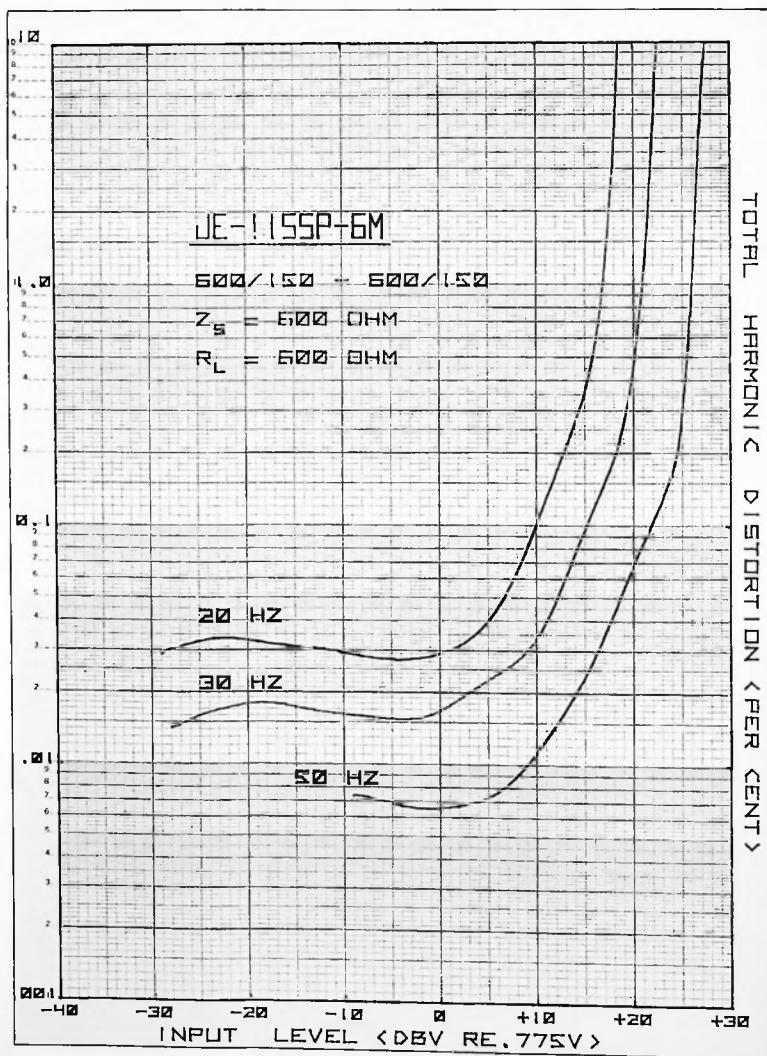
Actual oscilloscope photos were made with a Tektronix Model 453A (certified calibration).



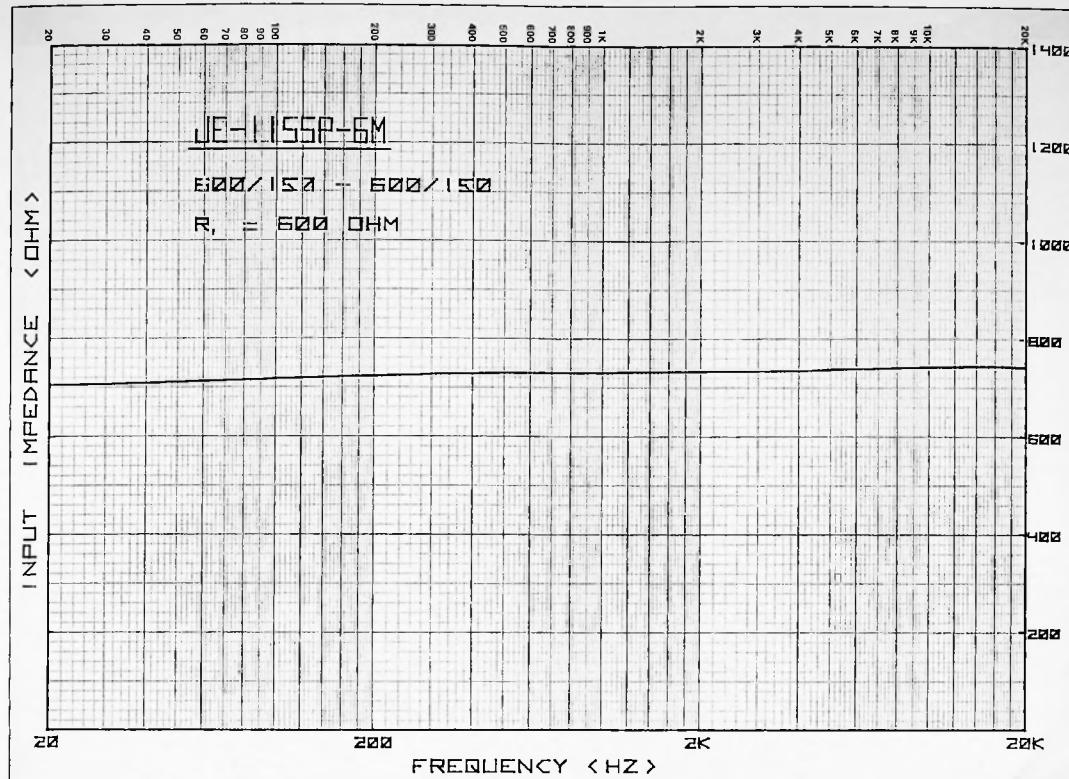
All curves were generated by a Hewlett-Packard 9815A/9862A programmable calculator/plotter.

All calculations were either derived from or verified by actual measurements. The distortion curves were generated by a polynominal curve fit program using measurements by a Sound Technology 1710A analyzer. Verified accuracies are on the order of one pen line width.

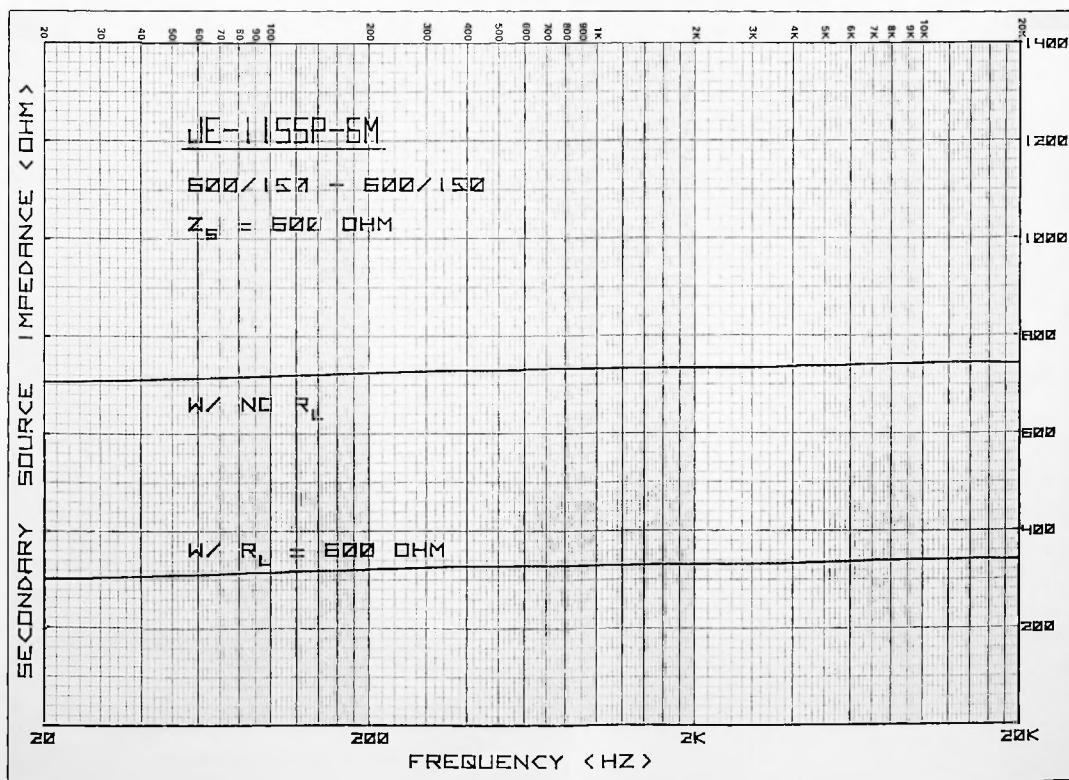
DISTORTION



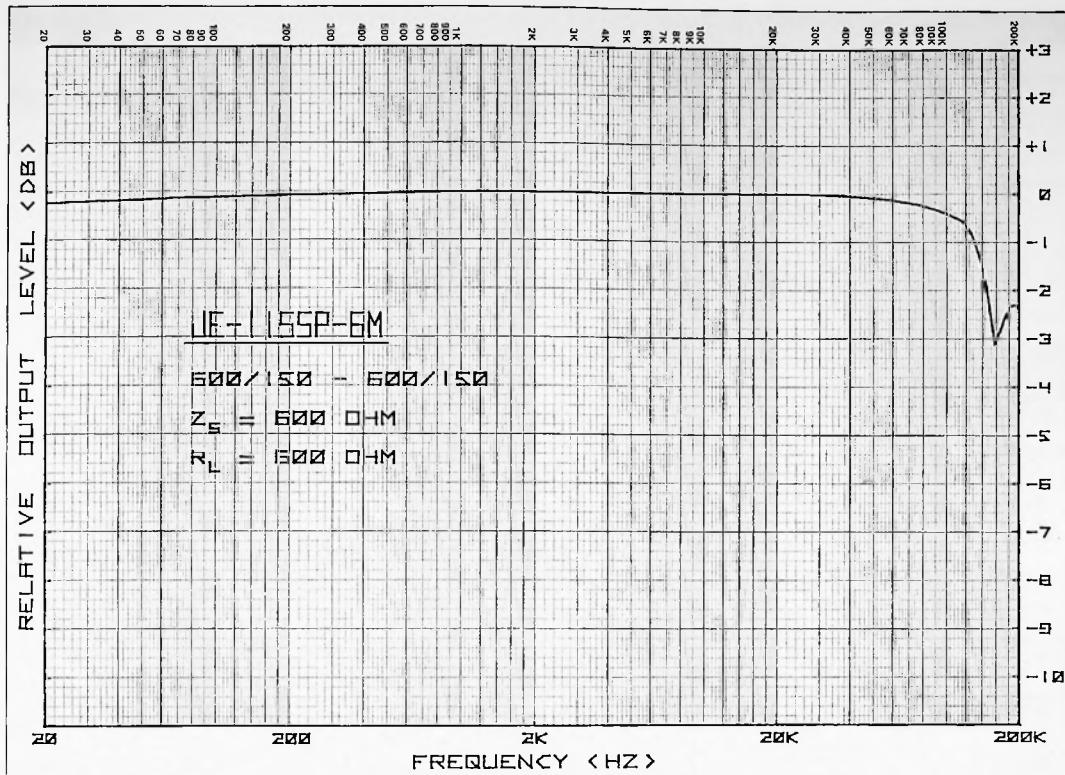
INPUT IMPEDANCE



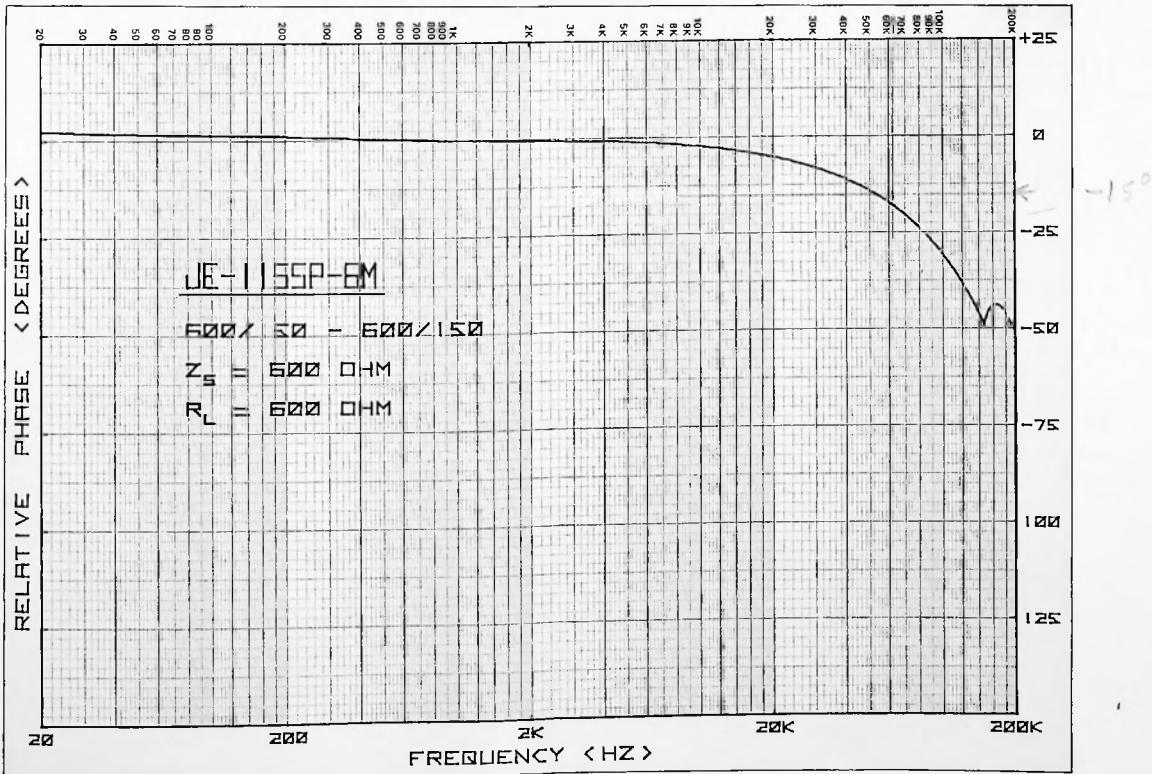
SECONDARY SOURCE IMPEDANCE



FREQUENCY RESPONSE



PHASE RESPONSE



JE-11SSP-6M GENERAL CHARACTERISTICS

Turns Ratio

1:1

Impedance Ratio

600/150 - 600/150

Primary Source Impedance

600 ohms or less

Secondary Load Resistor

600 ohms

Faraday Shield

Separate Lead

Magnetic Shield

30dB, separate case lead

Maximum Input Level at 20Hz

+18dBv (Re: 0.775v)

PHYSICAL CHARACTERISTICS

Package

Mu-metal cans; round for wire lead and octal versions, rectangular for terminal version.

Termination

Wire leads, 11 pin octal type plug, or 10 solder terminals.

Dimensions

Refer to adjacent dimensional drawings.

Mounting

Capacitor clamp supplied for wire lead version; four #4-40 inserts on top and bottom of terminal version.

TYPICAL PERFORMANCE

Insertion Loss

-1.0dB

Input Impedance

@ 1kHz 734 ohms

@ 10kHz 745 ohms

Secondary Source Impedance

@ 1kHz 734 ohms

@ 10kHz 745 ohms

Frequency Response (Re: 1kHz)

@ 20Hz -0.25dB

@ 20kHz 0dB (ref.)

Bandwidth

@ -3dB 160kHz

Phase Response

@ 20kHz -5 deg

Rise Time

(10%-90%) 1.7μS

Overshoot

<3.5%

Total Harmonic Distortion (Below Saturation)

0.035% @ 20Hz

0.018% @ 30Hz

0.008% @ 50Hz

Input Level @ 1% Saturation (dBv Re: 0.775v)

+17dBv @ 20Hz

+21dBv @ 30Hz

+26dBv @ 50Hz

Common-Mode Voltage (maximum)

>200v peak

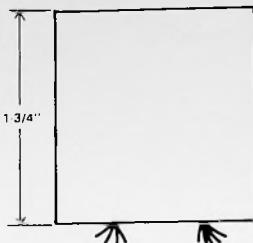
Common-Mode Rejection Ratio

>90dB @ 1kHz

>70dB @ 10kHz

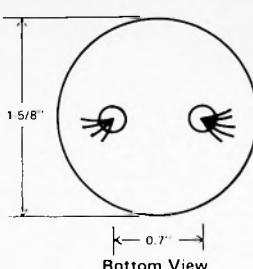
MECHANICAL DESIGNERS: Dimensions are approximate. Please have a transformer in hand when laying out panel cutouts.

(Wire Lead Package)



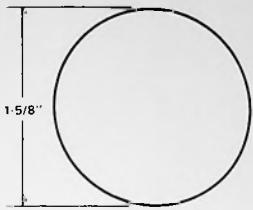
Lead Holes
Use 0.35" hole to clear grommet

Side View

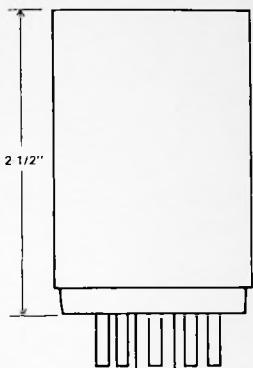


Bottom View

(Octal Package)

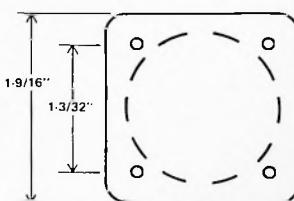


Top View



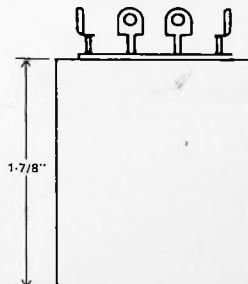
Side View

(Terminal Package)



Top View

Mounting Screws: Screw size 4-40. Maximum length 1/4" + panel thickness.



Side View

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(Visitors by Appointment Only)