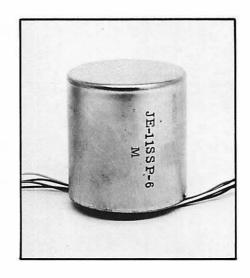
# **Data Sheet**

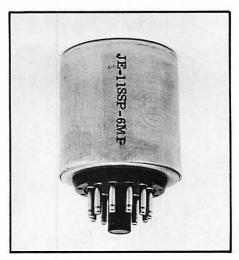
# jensen transformers By REICHENBACH ENGINEERING

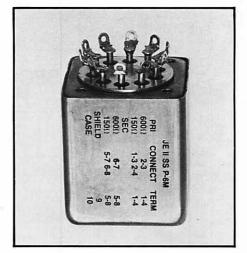
## JE-11SSP-6M LINE INPUT TRANSFORMER

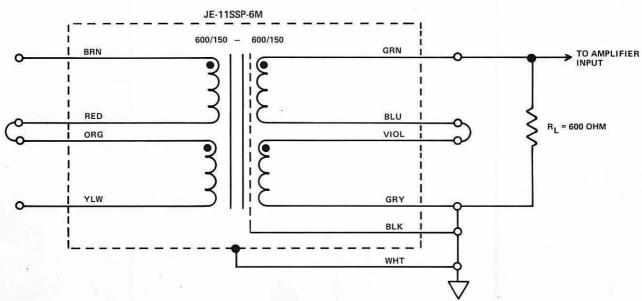
The JE-11SSP-6M is a 600/150 — 600/150 ohm (split winding) line input transformer for low input impedance circuits. It handles levels to +18dBv. Re: 0.775v @ 20Hz. Below saturation, the 20Hz THD is less than 0.035%. The high grade Nickel alloy core yields very low distortion even with source impedances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

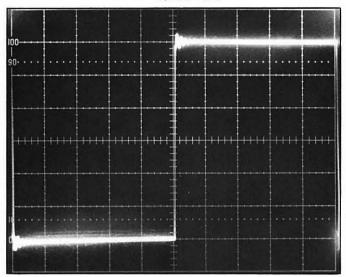




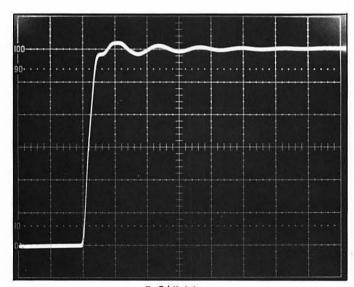




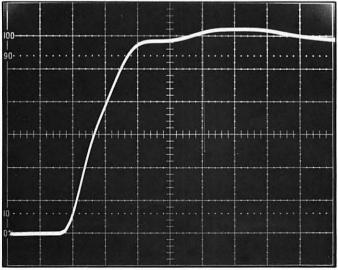
2kHz Square Wave



50µS/division



5µS/division

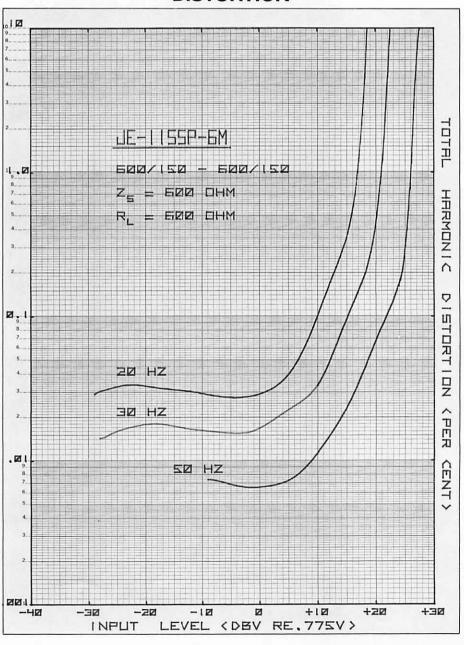


1μS/division

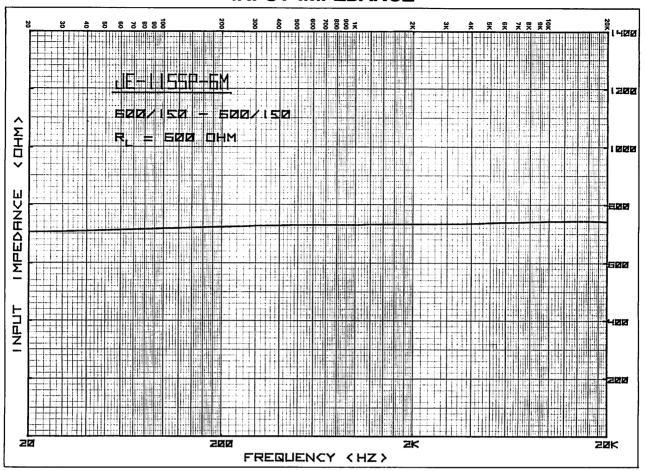
All curves were generated by a Hewlett-Packard 9815A/9862A programmable calculator/plotter.

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.

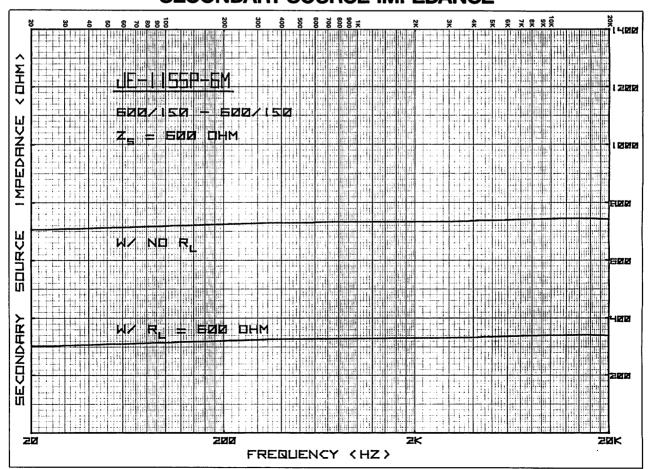
#### DISTORTION



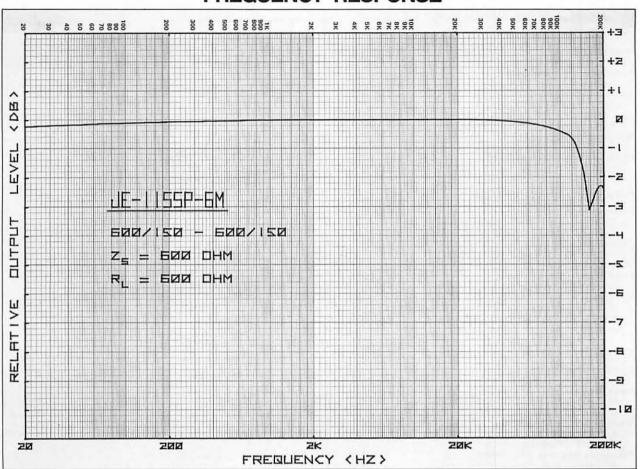
#### INPUT IMPEDANCE



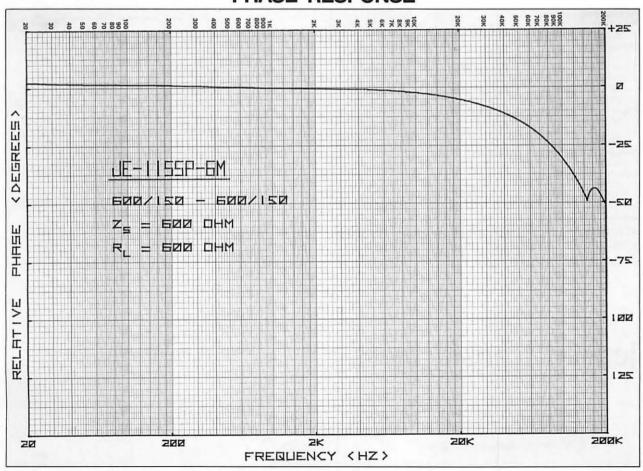
## **SECONDARY SOURCE IMPEDANCE**



## 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**

# 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

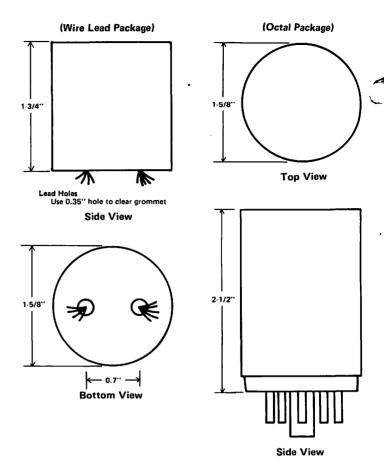
#### Insertion Loss -1.0dB Input Impedance @ 1kHz 734 ohms @ 10kHz 745 ohms Secondary Source Impedance @ 1kHz 734 ohms @ 10kHz 745 ohms Frequency Response (Re: 1kHz) @ 20Hz -0.25dB @ 20kHz OdB (ref.) Bandwidth @ -3dB 160kHz Phase Response @ 20kHz -5 deg Rise Time (10%-90%) 1.7µS Overshoot < 3.5% **Total 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.

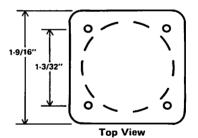
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10735 BURBANK BOULEVARD N. HOLLYWOOD, CALIFORNIA 91601 PHONE (213) 876-0059

(Visitors by Appointment Only)



#### (Terminal Package)



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

