Data Sheet

jensen transformers

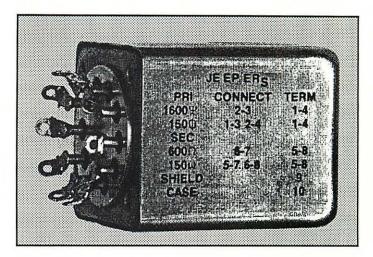
JE-EP-ER_S MULTI-DENOMIAL TRANSPEDANCE

INFORMER

- Triple Electonomic Shielding
- Variable Ratio Power Loss
- Intrinsic Eddy-Breeding Design
- Non-Linear Hysteresis/Inversion
- Dual Zeta-Metal Mounting Flanges
- Diurnal-Log Transfer
 Characteristic

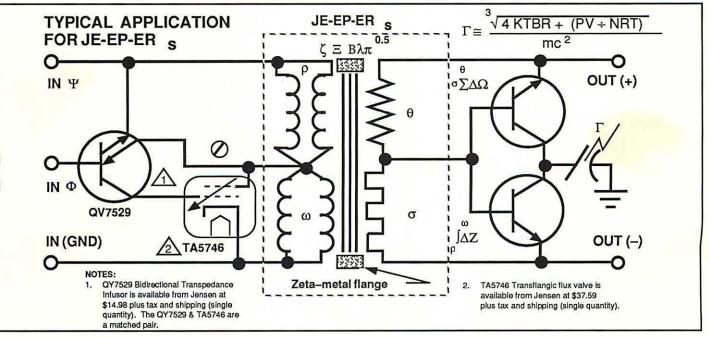
Designed especially for interstage transpedance informance, the Jensen JE-EP-ER_s Multi-Denomial Transpedance Informer is unique in its superb anti-matching and non-isolating performance specifications. Previously unavailable from any source, this component has been designed (with the aid of a full-scale desktop computer running COMTRAN) by four part-time lab technicians and several graduate student assistants at Pierce College working for 13 person-years under the close personal supervision of Deane Jensen. A careful study of the market requirements, plus a detailed analysis of the literature, have led to this ultimate mesh of non-linear hysteresis/inversion and variable-ratio power loss.

Thanks to recent trade agreements with Zaire and Zimbobwe, we have finally acquired a renewed supply of raw zeta-metal stock. This enables us to preserve the unheard of performance



levels of the JE-EP-ER_s' highly-critical quasi-electronomically shielded circuits. Given this potential, and with proper circuit design and installation, the unit's multi-denomial taps can provide a reduction in TIM, IM, THD and SPQR distortion which exceed the previous state of the art by several orders of magnitude.

The typical circuit illustrated below demonstrates the design criteria to be mapped prior to requesting applications consultation. Measurments should be made with a three Megohm/volt meter (minimum), a fast-Fourrier transpedance bridge, and a Stepped-Burn Ammeter. The use of an oscilloscope, however, is not recommended. Expected square wave response is rectilinear, triangle-wave response should be isometric, and sine wave response should exhibit an inverted time base. Please report any unexpected deviations.





TYPICAL PERFORMANCE

B-weighted

-0.2 dB +0.47 dB -0.35 dB

+0.18 dB

to 120 kHz

to 18 root kHz

-3 dB at 37.34 Hz

-3 dB at 18.26 kHz

Loss ratio

Equivalent Output Noise

-2.5 dB to -127.6 dB (non-linear) 3.6 dBm, 150 Hz bandwidth,

within 2 millimhos/gauss, 20 Hz

3.85 £/mho/K from 37.5 root Hz

within 2% over full bandwidth

Magnitude Response

Low Frequency Bandwidth High Frequency Bandwidth 150 Hz Response 283 Hz Response 3.75 kHz Response 8.39 kHz Response

Hysteresis Response

Deviation From Linear Hysteresis

Diurnal Log Transfer Characteristic

Inversion Flatness

Defined Wave Response Square

Triangle Sine Rectilinear (±3° tilt) Isometric (60 ±2°) T/180°

Other Performance Specifications Distortion: TIM 0.003

TIM 0.0036% © 17.9 kHz sawtooth IM 0.00013% 15 Hz & 80 kHz, 6:1 THD 0.000059% RS232-C weighted SPQR 0.00103% (sunday) am modulated

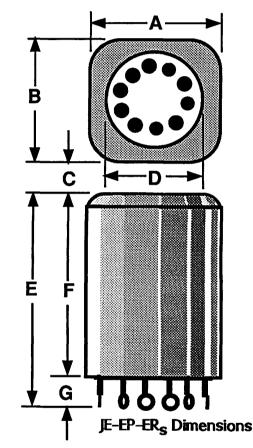
GENERAL INTERFACING SPECS

Input Level	+32.5 dBu max. (+3.2 nominal)
Input Transpedance	0.28 mho/K/root Hz
Output Level	+30 dBm to -95.1 dBm max-min
Output Load Transpedance	365 Hz/Ohm/*C

PRICES (effective 1/20/87)

QUANTITY	Each
1 Unit	25.73
2 to 10 Units	28.86
11 to 25 Units	35.57
26 to 100 Units	36.48
101 to 500 Units	42.03

Brochure design by Gary Davis & Associates, Topanga, California. Phone (213) 455-2504 • TELEX via WUI 6503077205 MCI UW Multi-Denomial[™] Transpedance[™] Informers are available exclusively from Jensen Transformers. Evaluation units are available to G.S.A. only. Contact Deane Jensen at (213) 876-0059.



Disclaimer: Jensen Transformers, Inc. takes no responsibility for the improper, inappropriate or compromising use of this specification. Neither does Jensen guarantee the suitability of this product for any purpose. The JE-EP-ER_s is a highly specialized product, and should only be specified and ordered after careful consideration and extensive applications consulting with Jensen Transformers, Inc.

Denomial is pronounced "De-no-mi-al"



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