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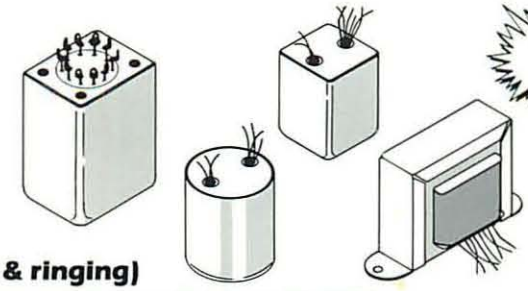
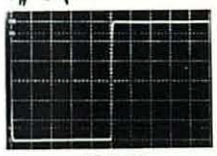
Minimum transient distortion (overshoot & ringing)



REVISED JUNE 1988



JE-16A
2 kHz Square Wave

INPUT TRANSFORMERS AND SPECIAL TYPES

Model	Application	Impedance Ratio Pri-Sec	Turns Ratio Pri:Sec	20Hz Max Input Level[1]	Typical THD Below Saturation (%) 20 Hz / 1 kHz	Frequency Response (dB ref. 1 kHz) 20 Hz / 20 kHz	Band-Width[2] –3 dB @(kHz)	20 kHz Phase[6] (degrees)	Over-Shoot (%)	Noise Figure (dB)	Magnetic Shield[4] (dB)	Number of Faraday[4] Shields	Package[5]	PRICES 1-19	100-249	1000
MICROPHONE INPUT																
JE-16-A JE-16-B	Mic in for 990 opamp	150-600	1:2	+8	0.036 / 0.003	–0.08 / –0.05	230	<1	<1	1.7	–30	1	A=1 B=2	79.19 87.04	52.36 57.55	36.12 39.70
JE-13K7-A	Mic in for 990 or I.C.	150-3750	1:5	+8	0.036 / 0.003	–0.09 / –0.21	85	<1	<2	2.3	–30	1	1	79.19	52.36	36.12
JE-115K-E (Improved)	Mic in for I.C. opamp	150-15 K	1:10	–2.5	0.125 / 0.010	–0.25 / –0.06	95	<1	<1	1.5	–30	1	3	57.55	38.05	29.81
LINE INPUT																
JE-11P-9	Line in	15 K-15 K	1:1	+26	0.025 / 0.003	–0.03 / –0.30	52	<1	<3		–30	1	1	128.33	84.86	58.54
JE-11P-1	Line in	15 K-15 K	1:1	+17	0.045 / 0.003	–0.03 / –0.25	85	<1	<1		–30	1	3	54.93	36.32	28.46
JE-6110K-B	Line in bridging	36 K-2200 (10 K-600)	4:1	+24	0.005 / 0.002	–0.02 / –0.09	125	<1	<1		–30	1	1	77.65	51.34	37.68
JE-10KB-C	Line in bridging	30 K-1800 (10 K-600)	4:1	+19	0.033 / 0.003	–0.11 / –0.08	160	<1	<2		–30	1	3	55.83	36.91	25.76
JE-11SSP-8M	Line in / repeat coil	600 / 150-600 / 150	1:1 split	+22	0.035 / 0.003	–0.03 / –0.00	120	<1	<3.5		–30	1	4	204.36	135.12	93.22
JE-11SSP-6M	Line in / repeat coil	600 / 150-600 / 150	1:1 split	+17	0.035 / 0.003	–0.25 / –0.00	160	<1	<3		–30	1	5	103.31	68.31	47.13
SPECIAL TYPES																
JE-MB-C	2-way[3] mic split	150-150	1:1	+1	0.050 / 0.003	–0.16 / –0.13	100	<1	<1		–30	2	3	47.09	31.14	24.41
JE-MB-D	3-way[3] mic split	150-150-150	1:1:1	+2	0.044 / 0.003	–0.14 / –0.16	100	<1	<1		–30	3	3	79.99	52.89	41.39
JE-MB-E	4-way[3] mic split	150-150-150-150	1:1:1:1	+10	0.050 / 0.002	–0.10 / –1.00	40	<1	<1		–30	4	1	120.12	79.42	54.79
JE-DB-E	Direct box for guitar	20 K-150	12:1	+19	0.096 / 0.005	–0.20 / –0.20	80	<1	<1		–30	2	6	57.29	37.88	29.64

1. (dBu) Max input level = 1% THD; dBu = dBv ref. 0.775 V
2. With recommended secondary termination
3. Specifications shown are for max. number of secondaries terminated in 1000 ohm (typical mic preamp)
4. Separate lead supplied for case and for each faraday shield
5. Except as noted, above transformers are cased in 80% nickel mu-metal cans with wire leads.
6. Deviation from linear phase, referenced to 1 kHz.

PACKAGE DIMENSIONS:

	W		L		H
1 =	1 5/16"	Diam.		×	1 9/16"
2 =	1 3/16"	×	1 3/16"	×	1 5/8"
3 =	1 1/8"	Diam.		×	1 1/16"
4 =	1 1/2"	×	1 3/4"		2 1/2" w/solder terminals
5 =	1 5/8"	Diam.		×	1 3/4"
6 =	1 1/8"	Diam.		×	15/16"

NICKEL CORE OUTPUT TRANSFORMERS[7]

Model	Construction	Nominal Impedance Ratio Pri-Sec	Turns Ratio Pri:Sec	20 Hz Max Output Level[8] (dBu)	across (n) windings	600 Ω Load Loss (dB)	DC Resistance per Winding	Typical THD Below Saturation (%) 20 Hz / 1 kHz	Frequency Response (dB ref. 1 kHz) 20 Hz / 20 kHz	Band-Width –3 dB @ (kHz)	20 kHz Phase[6] (degrees)	Over-Shoot (%)	Package[11]	PRICES 1-19	100-249	1000
JE-11-BMCF	Bifilar 80% nickel	600-600	1:1	+26	1	–1.1	40 Ω	0.002 / 0.002	–0.02 / –0.00	>10MHz	<0.5	<1[10]	7	85.62	56.62	39.65
JE-11-DMCF	Bifilar 80% nickel	600-600	1:1	+21	1	–1.0	38 Ω	0.004 / 0.002	–0.02 / –0.00	>10MHz	<0.5	<1[10]	8	59.13	39.10	26.97
JE-123-BLCF	Quadfilar	600-600 150-600	1:1 1:2	+32	2	–1.1	20 Ω	0.041 / 0.003	–0.02 / –0.01	>450 170	<0.5 <1	<1[9]	7	77.55	45.29	31.25
JE-11SS-DLCF	Bifilar split/split	600-600 150-600	1:1 1:2	+27	2	–1.0	19 Ω	0.065 / 0.003	–0.02 / –0.01	>10MHz 245	<0.5 <0.5	<1[9]	8	56.30	37.22	25.68
JE-11-ELCF	Bifilar	600-600	1:1	+23.5	1	–1.1	40 Ω	0.088 / 0.003	–0.03 / –0.00	>10MHz	<0.5	<1[10]	9	38.18	25.24	17.41
JE-11-FLCF	Bifilar	600-600	1:1	+20.4	1	–1.6	58 Ω	0.114 / 0.003	–0.03 / –0.00	>10MHz	<0.5	<1[10]	10	28.72	18.99	13.10
JE-112-LCF	Quadfilar	600-600 150-600	1:1 1:2	+20.4	2	–1.6	29 Ω	0.114 / 0.003	–0.03 / –0.01	>450 205	<0.5 <1	<1[9]	10	34.44	22.77	15.71
JE-123-ALCF	Quadfilar	66.7-600	1:3	+26.5	3	–1.3	8 Ω	0.125 / 0.003	–0.04 / +0.06	190	<1	<6[9]	8	70.01	35.38	24.41
JE-11S-LCF	Bifilar w/ split pri.	600-600 150-600	1:1 1:2	+30	1 (sec)	–1.7	63 Ω	0.058 / 0.002	–0.02 / +0.01 –0.02 / –0.05	>10MHz 155	<0.5 <1	<1[9]	8	70.01	35.38	24.41

7. Multifilar construction has no faraday shield: cannot be used as input transformer. All specifications are for 0 Ω source, 600 Ω load.
8. Max output level = 1% THD; dBu = dBv ref. 0.775 V
9. Source amplifier –3 dB @ 100 kHz
10. Source amplifier –3 dB @ 200 kHz
11. Output transformers are horizontal channel frame type with wire leads, vertical channel frames available. PC types available.

PACKAGE DIMENSIONS:

	W		L		H	Mounting Centers
7 =	1 1/2"	×	2 5/16"	×	1 15/16"	2 13/16"
8 =	1 5/16"	×	1 15/16"	×	1 5/8"	2 3/8"
9 =	1 1/8"	×	1 11/16"	×	1 3/8"	2"
10 =	1 1/16"	×	1 7/16"	×	1 3/16"	1 3/4"

These charts include the most popular types which are usually available from stock. Many other types are available from stock or custom designs for OEM orders of 100 pieces or more can be made to order. Certified computer testing is available for OEM orders. Call or write for applications assistance and/or detailed data sheets on individual models.

Prices shown are effective 1/1/88 and are subject to change without notice. Packing, shipping, and applicable sales taxes additional.

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Superb specifications, consistent performance, and unsurpassed reliability have earned Jensen a solid reputation as the world's preeminent manufacturer of audio transformers.

We control every facet of design and construction, from core alloy up, using sophisticated computer modeling techniques. With 5 years software development background, including an AC circuit analysis for Hewlett-Packard's desk top computers, we now market our own advanced circuit optimization programs. Because Jensen transformers are designed to function as an integral part of the circuit, not as an afterthought, *all* parameters can be optimized. The result is a *clearly audible improvement in transformer technology.* For example, our Model JE-115K-E mic input transformer has under 1% overshoot with no RC damping network (bridged output), and exceptional magnitude and phase response.

Our highly qualified technical staff is eager to assist you with expert applications engineering. Discerning engineers have field proven our transformers, by the tens of thousands, in the most demanding environments – professional recording studios, fixed and mobile broadcast facilities, and touring sound systems. That returns and failures are rare is no accident; we place strong emphasis on quality control.

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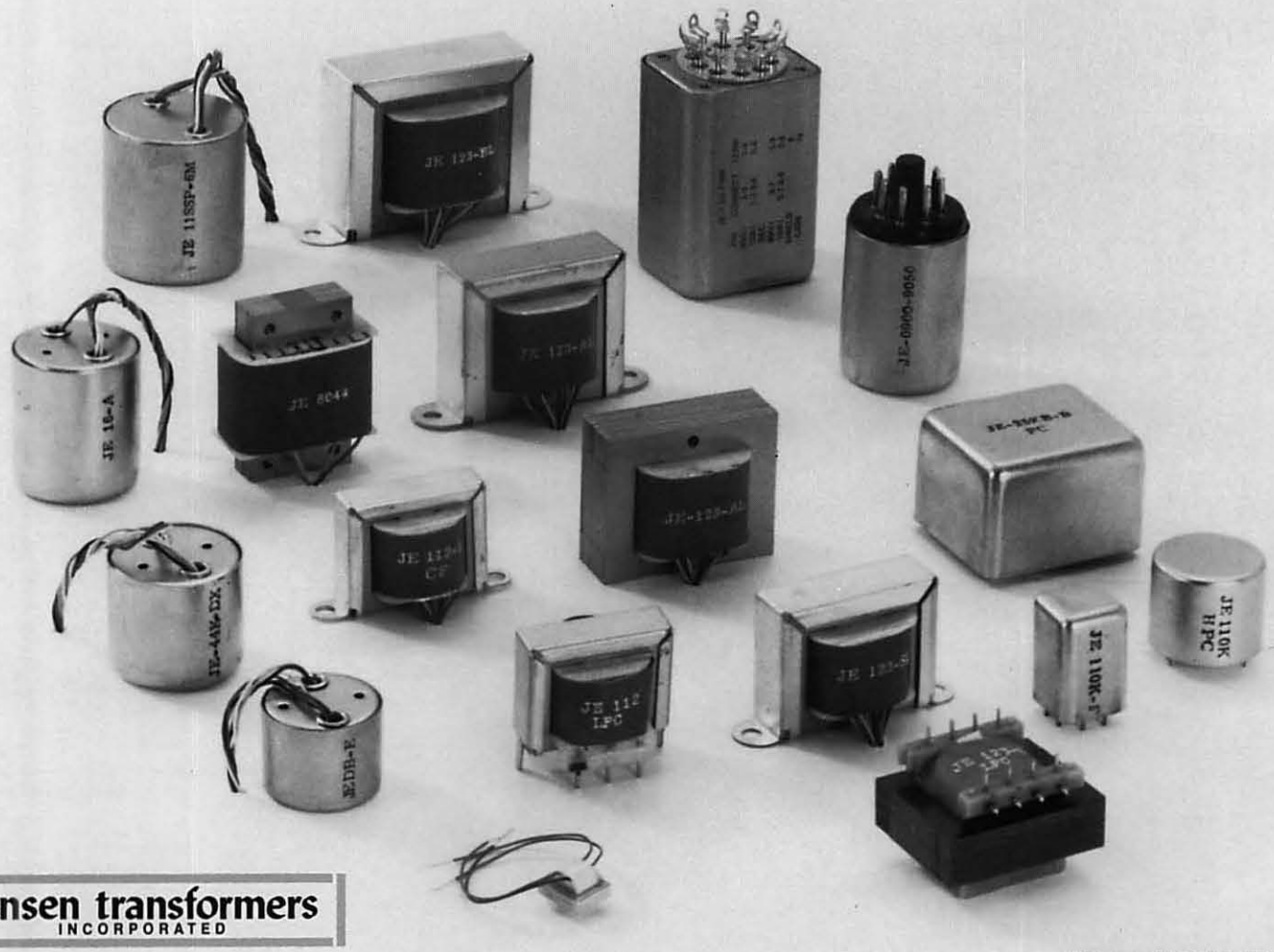
We take this extra care because we are dedicated to excellence. So next time you need a transformer, *insist on the best – insist on a Jensen.*



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