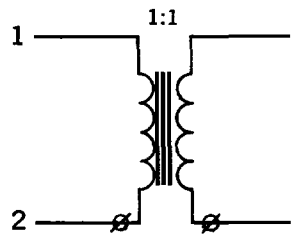
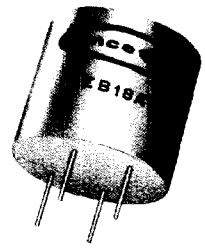
TRANSFORMER / INDUCTOR

APPLICATION FEATURES

MULTIPURPOSE COMPONENT — For use as Audio-Transformer, Inductor, and other applications requiring DC carrying capability.
PACKAGING FOR P.C. BOARDS — Epoxy Encapsulated unit at moderate cost for plug in on Standard 0.1 inch grid spacing.



SCHEMATIC



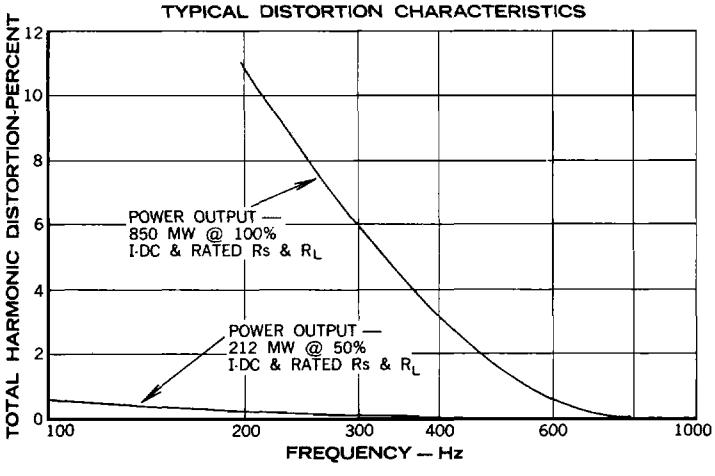
ACTUAL SIZE

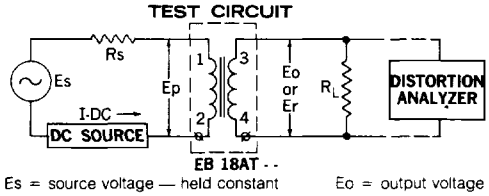
AUDIO-TRANSFORMER

SPECIFICATIONS & FEATURES

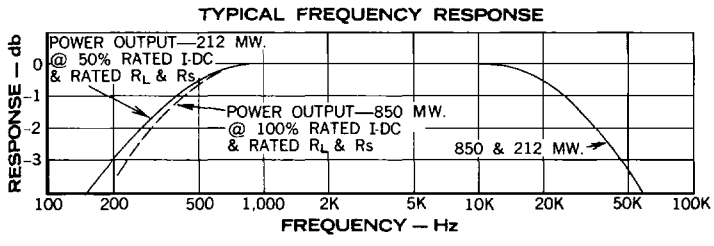
1. Power Output — 850 milliwatts (1 KHz REF.)
2. Design optimized to carry DC for maximum performance in Class A driver or output service.
3. Low Distortion — typically less than 5% at 400 Hz @ full rated conditions resulting from linear input impedance characteristics.
4. Frequency Response — down 3 db @ 200 & 45,000 Hz @ 50% Rated I-DC.
5. Insertion Loss — 4 db Max. @ 100% load and Rated conditions.
6. Isolation — 60 picofarads maximum winding to winding capacitance. Provides 60 db common mode rejection @ 60 Hz.
7. Turns Ratio — 1:1 ±2%.
8. Open Circuit Primary Impedance (Z) tolerances is ±25% @ 1 KHz & Eo.

PART NUMBER	Eo-RMS VOLTS	Rs & R_L OHMS	I-DC MA	Z (1-2) OHMS	DCR-OHMS ±20% 1-2	3-4
EB18AT30	2.56	7.66	472	24	1.4	1.8
EB18AT31	3.22	12.1	375	38	2.2	2.9
EB18AT32	4.05	19.2	298	60	3.5	4.6
EB18AT33	5.10	30.5	237	95	5.5	7.3
EB18AT34	6.42	48.3	188	150	8.8	12
EB18AT35	8.08	76.6	149	240	14	18
EB18AT36	10.2	121	119	380	22	29
EB18AT37	12.8	192	94.2	600	35	46
EB18AT38	16.1	305	74.8	950	55	73
EB18AT39	20.3	483	59.4	1500	88	120
EB18AT40	25.6	766	47.2	2400	140	180
EB18AT41	32.2	1210	37.5	3800	220	290
EB18AT42	40.5	1920	29.8	6000	350	460
EB18AT43	51.0	3050	23.7	9500	550	730
EB18AT44	64.2	4830	18.8	15000	880	1200





Es = source voltage — held constant Eo = output voltage
Er = output voltage @ 1 KHz Response-db = 20 log Eo/Er



INDUCTOR

PART NUMBER	L (1-4) MH ±25%	DCR (1-4) OHMS ±20%	I-DC MA	E-RMS VOLTS
EB18AT30	15	3.2	236	6.38
EB18AT31	24	5.1	188	8.03
EB18AT32	38	8.1	149	10.1
EB18AT33	61	13	118	12.7
EB18AT34	96	20	94	16.0
EB18AT35	150	32	74.6	20.2
EB18AT36	240	51	59.4	25.4
EB18AT37	380	81	47.1	32.0
EB18AT38	610	130	37.4	40.2
EB18AT39	960	200	29.7	50.7
EB18AT40	1500	320	23.6	63.8
EB18AT41	2400	510	18.8	80.3
EB18AT42	3800	810	14.9	101
EB18AT43	6100	1300	11.8	127
EB18AT44	9600	2000	9.40	160

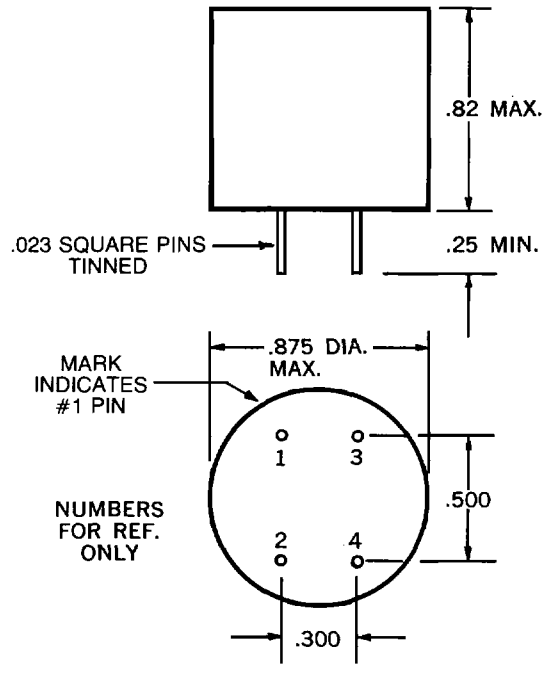
SPECIFICATIONS & FEATURES

1. Can be used as either 2 terminal or 4 terminal Inductor.
2. Data in table is for terminals 1-4 with 2-3 connected together (series connection).
3. Inductance values (L) given are @ 1 KHz & corresponding E-RMS VOLTS with I-DC = 0. The Inductance is essentially constant from 0 to Rated I-DC.

ADDITIONAL SPECIFICATIONS

1. Maximum Temperature Rating = 130°C.
2. Maximum Temperature Rise @ Rated I-DC is 25°C.
3. Dielectric withstanding voltage = 500V-RMS 60 Hz.
4. Insulation resistance ≧ 1000 megohms @ 500 V-DC.
5. All electrical data is at 20 ±5°C.

MECHANICAL SPECIFICATIONS



MODIFIED STANDARD PARTS

Center-taps, extra winding, electro-static shield, or other turns ratios (6 pin maximum) available on special orders. Also available as an open-type part with the same P.C. pins.