Amplifone Corporation.
If There's A Better Way To Make A Product, We Won't Rest Until We Find It.

Amplifone, an Illinois Corporation, was founded December 30, 1950 by T.K. Handing for the purpose of manufacturing and marketing a Telephone Amplifier; hence the name Amplifone Corporation.

Amplifone is and always has been family owned. Since its establishment in 1950 it has produced a variety of electronic assemblies. From 1956 to 1974 Amplifone specialized in High Voltage Output Transformers, also known as Flyback Transformers. During this period the bulk of production went into the O.E.M. home entertainment industry.

Also during this period Amplifone Corporation developed the first acceptable flame-retardant flyback transformer construction. A transformer that to this day, passes all UL, CSA, and IEC specifications.

T.K. Handing, Founder and President

T.E. Handing, Executive Vice-President

During the past four years, 1974 to 1978, a variety of new product lines have been added under the direction of T.E. Handing, Executive Vice-President and son of the founder. Mr. Handing was educated at the Illinois Institute of Technology and has worked with the Company since 1958.

In order to continue to develop new ideas and establish new products, Amplifone Corporation has increased its Electrical Design Engineering Staff to six Project Engineers and five Technicians. In addition, a Mechanical Engineering capability with a full-time draftsman was established along with an in house machine shop.

At one time Amplifone had production facilities in Illinois, Wisconsin, Canada, and Texas. Today these facilities have been combined into approximately 90,000 square feet in two facilities. Main production facilities are located in Brownsville, Texas with a sister facility in Matamoros, Mexico.

The people who work for Amplifone Corporation take pride in its reputation for producing quality products. The kind of pride that has led Amplifone to an outstanding supplier award for highest quality.

The overall company attitude may be summed up in one phrase:

IF THERE IS A BETTER WAY TO MAKE A PRODUCT, WE WON'T REST UNTIL WE FIND IT.
Amplifone Corporation

Amplifone's main office at the Brownsville complex.

The sister facility located just across the border in Matamoros, Mexico.
Ampliphone Corporation

Drafting Department.

Ampliphone's facilities include a complete on location machine shop.

Electrical design lab for the design and testing of new products and monitoring of production quality.

Compound development facilities are available through a chemical lab.

One section of the sample winding and assembly lab.
Amplifone Corporation

Section of yoke winding department.

Four-Line Scanner used in testing yokes.  Section of yoke assembly department.

Expansion area for yoke department.
Amplifone Corporation

Multiple coil layer winding department.

One of three different and separate impregnating sections.

Assembly department for coils and transformers.
The Standard Flyback Transformer line consists of flyback transformers which use a special flame-retardant silicone impregnation and/or encapsulation process developed by Amplifone Corporation. This type of flyback transformer requires external rectification. Rectification can be obtained by vacuum tube, single stick, or voltage multiplier depending on design specifications and requirements. The transformers can be designed for vacuum tube or solid state circuits. They can be tuned to operate at the third (3rd) or fifth (5th) harmonic, and in a wide range of input and output voltages.

All transformers are custom built to the customer's specifications and requirements and can be designed to meet UL, CSA, and/or IEC standards.

All are 100% tested before shipment.

Amplifone Corporation
Plant Facilities / Brownsville Compress, Bldg. No. 900
P.O. Box 3297
Brownsville, Texas 78520
512/541-3461 / TWX 910-870-1748
HIGH VOLTAGE TRANSFORMER PRELIMINARY
INFORMATION REPORT
(Confidential)

Date: ____________________

Customer: ____________________ Customer's Part No: ____________________

________________________________________

Engineer: ____________________ Tel. No: ____________________

________________________________________

Sales Rep: ____________________ Tel. No: ____________________

________________________________________

A. If prints and/or published specifications are available, please attach them to this information report and fill out all information below if it is not specified in published materials attached.

1.) Request is for ○ New design ○ Replacement design ○ Second source

2.) Type of High Voltage Transformer ○ Standard ○ Integrated flyback transformer module (IPTM)

3.) Type of tuning ○ 3rd (harmonic) ○ 5th (harmonic) ○ Ultra-tuned (Note: Ultra-tuned available only with IPTM construction.)

4.) If standard construction, what type of rectification will be used? ____________________

Please include specifications.

5.) If IPTM construction, is internal bleeder desired? ○ Yes ○ No
   a. If yes, what bleeder current is required? ____________________

6.) Input supply voltage? ____________________

7.) Input supply power? ____________________

8.) Will supply voltage be regulated? ○ Yes ○ No
   a. What variation will be allowed? ____________________

9.) Switch repetition rate (Horizontal Frequency)? ____________________

10.) On time of Driver Transistor? ___________ ○ % ○ µS.

11.) Retrace time in micro seconds at AC zero? ____________________ µS.

12.) Nominal high voltage?
   a. To CRT or end device? ____________________

13.) Nominal high voltage current? ____________________
14.) Maximum high voltage current? ____________________________

15.) High voltage regulation required? ____________________________

16.) Total nominal inductance seen by primary? ____________________________
   a. Nominal Yoke inductance (horizontal)? ____________________________
   b. Nominal linearity coil inductance? ____________________________
   c. Nominal width coil inductance? ____________________________
   d. Other: ____________________________

   Note: Please include sketch or print of how components are connected.

17.) Peak to peak Yoke current for nominal scan? ____________________________

B. Please attach following additional information:
   1.) Specifications on driver transistor and damper diode.
   2.) Circuit drawing showing any and all auxiliary windings and nominal loads.

C. Is a Breadboard, Test Fixture, Monitor, Chassis with mounted CRT, or other assembly with supply voltages available for design purposes? O Yes O No

Submitted by: ____________________________

Date: ____________________________
The Integrated Flyback Transformer Module (IFTM) line consists of flyback transformers with internal rectification. The special flame-retardant impregnation and encapsulation process developed by Amplifone Corporation permits this type of transformer module to be designed for a wide range of input and output voltages. Due to the special processing techniques developed by Amplifone Corporation, the customer has great flexibility in design parameters, such as input frequency, voltages both input and output, and terminal configuration. The Module size varies depending on voltage requirements and other design specifications and requirements. These modules can be designed to take advantage of three (3) different types of tuning; third (3rd) harmonic, fifth (5th) harmonic, or Ultra-Tuned.

All transformers are custom built to the customer’s specifications and/or requirements and can be designed to meet UL, CSA, and/or IEC standards.

All are 100% tested before shipment.
The Ferrite Core Transformer line includes transformers which operate in the medium to high frequency range and at the low to medium voltage range.

This type of transformer has been designed to deliver up to 1,300 watts of output power.

Amplifone Corporation's facilities provide for a variety of processing techniques including but not limited to layer winding, and bobbin winding, along with dipping, impregnating, and encapsulating in a variety of compounds.

All transformers are custom built to the customer's specifications and requirements and can be designed to meet UL, CSA, and/or IEC standards.

All transformers are 100% tested before shipment.

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The Laminated Transformer line consists of all types of transformers using steel laminations with a center leg width of from one-quarter (¼) inch to two and one-half (2½) inches.

Amplifone Corporation has facilities to impregnate and dip these transformers in a variety of different compounds including but not limited to Varnishes, Permafil, and Silicone Resins.

Transformers are custom built to the customer's specifications and requirements and can be designed to meet UL, CSA, and/or IEC standards.

All are 100% tested before shipment.
The Ferrite Pot Core Transformer line consists of a variety of transformers constructed with pot cores for use in the medium to high frequency range and at the low to high voltage range.

Amplitone Corporation facilities permit a variety of processing techniques including but not limited to layer winding, and bobbin winding, with dipping, impregnation and encapsulation in a variety of compounds.

All transformers are custom built to the customer's specifications and requirements and can be designed to meet UL, CSA, and/or IEC standards.

All transformers are 100% tested before shipment.
The Coil and Coil Assembly line of products includes layer wound, self-supporting, and bobbin wound winding constructions. The winding may be assembled to a terminal board or collar, impregnated or dipped, dry, or assembled with other components and encapsulated.

The dipping, impregnating, and encapsulating can be done with a variety of compounds including but not limited to Epoxies, Silicone resins, and varnishes.

Coil sizes up to four (4) inches in diameter can be handled on present equipment.

All coils and coil assemblies are custom built to the customer's specifications and requirements and can be designed to meet UL, CSA, and/or IEC standards. All coil and coil assemblies are 100% tested before shipment.
The Specialty Transformer line includes a wide range of transformers which must operate under unusual conditions such as irregular frequency response, and severe ambient conditions, including very high humidity and temperature conditions. This line also includes transformers which have been reduced to the minimum operable size for special applications.

Specialty Transformers can be designed in a wide range of input and output voltages for low frequency or high frequency applications.

All Specialty Transformers are custom built to the customer's specifications and requirements and can be designed to meet UL, CSA, and/or IEC standards.

All transformers are 100% tested before shipment.
Deflection Yokes

The Deflection Yoke line consists of deflection yokes for both color and black and white CRT displays. The yokes are constructed using saddle and toroidal windings. Additional tooling is acquired as needed.

All yokes are custom built to the customer's specifications and requirements and can be designed to meet UL, CSA, and/or IEC standards.

All are 100% tested before shipment.

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Brownsville, Texas 78520
512/541-3461 / TWX 910-870-1748
B & W DEFLECTION YOKE PRELIMINARY
INFORMATION REPORT
(Confidential)

Customer: ____________________  Customer's Part No: ______________

______________________________

Engineer: ____________________  Tel. No: _________________________

______________________________

Sales Rep: ____________________  Tel. No: _________________________

______________________________

Yoke Description: Is print available? Yes [ ]  No [ ]
(Where print is available, give information below when not specified on the print.) If no, when will it be available? ______________________

Tube Type(s) ________________________________________

Tube neck diameter 1 1/8" ______ 20mm ______ other (specify)

Horiz. Inductance _________ __% _________
Horiz. Resistance __________ __% __________
Vert. Inductance __________ __% _________
Vert. Resistance __________ __% __________
Vert. Coils/Torroidal (wound on core) [ ] or, saddle wound [ ]

Cross talk ratio

Input: Frequency _________ Vrms _________ Output _________ Vrms
B & W DEFLECTION YOKE PRELIMINARY
INFORMATION SHEET
(Confidential)

Lead Wire lengths ___________________________ in.

Measured from breakout point? Yes □ No □ Measured from center line of Yoke? Yes □ No □ Other (specify) ________

Position of lead wire breakout ___________________________

Cathode Ray _______________ KV
Tube Voltage _______________

Raster Dimensions used: Full Screen Illumination ____________, or Partial Screen (Computer) ____________. If partial Screen, specify: Horiz. Scan ____________ in. Vert. Scan ____________ in.

Is a receiver (or monitor) available? (Specify) ____________________

In monitor applications, is a signal input generator available? (Specify availability) ____________________

Information Secured by

__________________________________________

Date

__________________________________________
The Electronic Assembly line includes a variety of special purpose assemblies. This line consists of such items as special power supplies, switching assemblies, voltage multipliers (pulse and sine-wave), rectifier packages, control assemblies, switch mode power supplies, and others.

Depending on the customer's requirements, work in this line can be done on a design and/or build basis, or on a sub-contract basis.

All electronic assemblies are custom built to the customer's specifications and requirements and 100% tested before shipment.
The Printed Circuit Board Assembly line includes all types of hand-stuffed, wave-soldered Printed Circuit Boards up to a maximum width of twelve (12) inches. Depending on the customer's requirements, work in this line can be done on a design and/or build basis, or on a sub-contract basis.

All printed circuit board assemblies are custom built to the customer's specifications and requirements and 100% tested before shipment.
Cable Assemblies

The Cable Assemblies produced by Amplifone Corporation are custom made to the customer's specifications and requirements. They can be assembled to a wide variety of connectors and in various configurations. The Cable Assembly line includes cables for the Television industry, Computer industry, Agricultural industry, and various other industries.

All are 100% tested before shipment.

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