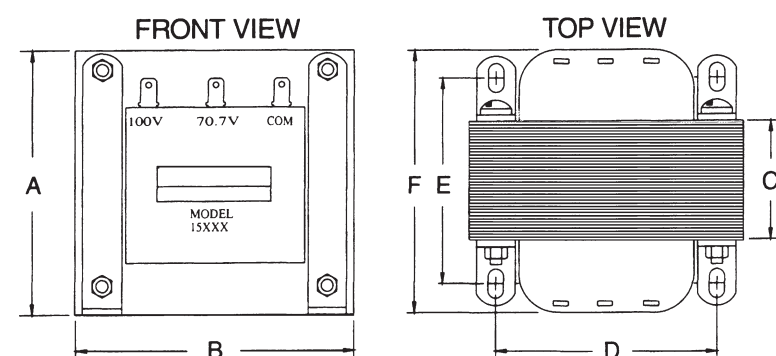
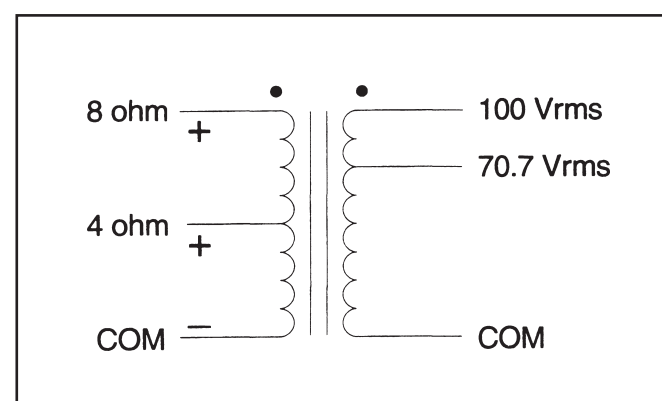


# 15000 Series Transformers



Model Number	A	B	C	D	E	F	Mounting Holes	Net Weight	Shipping Weight
15060	2.84 in	3.38 in	1.63 in	2.81 in	2.63 in	3.63 in	0.19 in	4.26 lbs	6.0 lbs
	7.21 cm	8.59 cm	4.14 cm	7.14 cm	6.68 cm	9.22 cm	0.48 cm	1.93 kg	2.72 kg
15075	3.12 in	3.75 in	1.50 in	3.12 in	2.50 in	3.50 in	0.19 in	4.91 lbs	6.5 lbs
	7.92 cm	9.53 cm	3.81 cm	7.92 cm	6.35 cm	8.89 cm	0.48 cm	2.23 kg	2.95 kg
15100	3.45 in	4.12 in	1.75 in	3.44 in	2.75 in	3.88 in	0.19 in	6.71 lbs	8.0 lbs
	8.76 cm	10.46 cm	4.45 cm	8.74 cm	6.99 cm	9.86 cm	0.48 cm	3.04 kg	3.63 kg
15150	3.75 in	4.50 in	1.75 in	3.75 in	2.75 in	4.00 in	0.19 in	8.06 lbs	9.5 lbs
	9.53 cm	11.43 cm	4.45 cm	9.53 cm	6.99 cm	10.16 cm	0.48 cm	3.66 kg	4.31 kg
15200	3.75 in	4.50 in	2.00 in	3.75 in	3.00 in	4.00 in	0.19 in	8.98 lbs	10.5 lbs
	9.53 cm	11.43 cm	5.08 cm	9.53 cm	7.62 cm	10.16 cm	0.48 cm	4.07 kg	4.76 kg
15300	4.38 in	5.25 in	1.97 in	4.32 in	3.12 in	4.00 in	0.19 in	11.92 lbs	14.5 lbs
	11.13 cm	13.34 cm	5.00 cm	10.97 cm	7.92 cm	10.16 cm	0.48 cm	5.41 kg	6.58 kg
15600	5.06 in	6.00 in	3.06 in	4.95 in	4.12 in	5.12 in	0.25 in	23.67 lbs	27.0 lbs
	12.85 cm	15.24 cm	7.77 cm	12.57 cm	10.46 cm	13.00 cm	0.64 cm	10.74 kg	12.25 kg

Dimension & Weight



Schematic

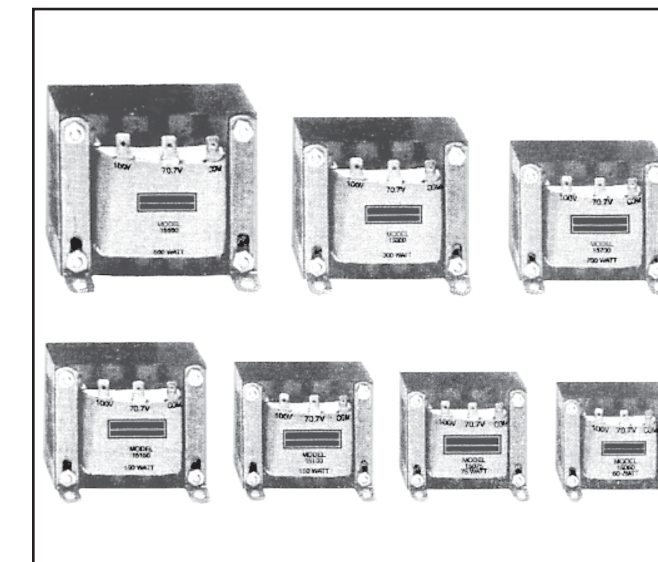
## General Product Description

Electro-Voice® 70.7V/100V Output Transformers are designed for efficient transmission of amplifier power to distributed sound systems or multiple loudspeakers. The transformers accommodate a wide range of user requirements for impedance matching, output voltage and power. Transformers are reflective devices and will deliver a ratio of the voltage applied to the primary, or reflect a ratio of the secondary load. Voltage and Impedance ratios are listed in the table on page 2. The primary and secondary windings are reversible. Each model can be used to step-up or step-down.

Primary and secondary windings are electrically isolated, so that the transformer offers a balanced load to the amplifier and a balanced source to the loudspeakers. Low insertion loss, low distortion and high efficiency are maintained throughout the dynamic range of each transformer and throughout the frequency band of 35 Hz to 15,000 Hz. The transformers have an insertion loss of no more than 1.0 dB and draw that much extra power from the amplifier to supply rated power to the load. All transformer terminals are 0.25-inch blade type quick-disconnect wire terminals allowing either wrap-and-solder connections or crimp type quick-connect wire terminals for convenience of installation. Terminals are identified by optimum application for rated power at 35 Hz.

Electro-Voice's 70.7V/100V Output transformers are amplifier accessories that increase flexibility and utility of any power amplifier.

Transformer response at low frequencies is limited by core saturation. A clear indication of core saturation is a sudden drop in primary impedance. The graph on page 2 shows the typical Electro-Voice® 15000 Series Output Transformer has flat primary impedance to 35 Hz. Restricting the 15000 Series Output Transformer to above 60 Hz will effectively double the transformer's power handling. Insertion Loss is the difference between power applied to the primary and power available on the secondary. The graph also shows the typical Insertion Loss of the 15000 Series Output Transformer is 0.5 dB. Distortion and Phase Response are shown in the second graph on page 2. Distortion is excellent and remains well below 0.1%. Phase response is less than 9 degrees at 15 kHz.



## Architects' and Engineers' Specifications

The transformer shall deliver within  $\pm 1.0$  dB of its full rated power over the frequency range of 35 Hz to 15,000 Hz with a maximum insertion loss not greater than 1.0 dB for the most unfavorable impedance combination. The transformer shall deliver rated power at 35 Hz with no more than a 10% increase of power on the primary. Primary and secondary windings shall be electrically isolated, and shall provide a balanced line to the load. The transformer shall utilize 0.25-inch blade quick-connectors for convenience of installation and wiring. The transformer shall be the Electro-Voice® Model\_\_\_\_\_.

USA 12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-884-4051, FAX: 952-884-0043  
 Canada 705 Progress Avenue, Unit 46, Scarborough, Ontario, Canada, M1H2X1, Phone: 416-431-4975, 800-881-1685, FAX: 416-431-4588  
 Switzerland Kellenstrasse 11, CH-2563 IPSACH, Switzerland, Phone: 41(0)32-331-6833, FAX: 41(0)32-331-1221  
 Germany Hirschberger Ring 45, D94315, Straubing, Germany, Phone: 49 9421-706 392, FAX: 49 9421-706 287  
 France Parc de Courcerin, Alle Lech Walesa, Lognes, 77185 Marne La Vallee, France, Phone: 33(1)6480-0090, FAX: 33(1)6480-4538  
 Australia Unit 23, Block C, Slough Business Park, Slough Avenue, Silverwater, N.S.W. 2128, Australia, Phone: 61(2)9648-3455, FAX: 61(2)9648-5585  
 Hong Kong Unit E & F, 21/F, Luk Hop Industrial Bldg., 8 Luk Hop St., San PO Kong, Kowloon, Hong Kong, Phone: 852-2351-3628, FAX: 852-2351-3329  
 Japan 2-5-60 Izumi, Suginami-ku, Tokyo, Japan 168, Phone: 81-3-3325-7900, FAX: 81-3-3325-7789  
 Singapore 3015A Ubi Rd 1, 05-10, Kampong Ubi Industrial Estate, Singapore 408705, Phone: 65-746-8760, FAX: 65-746-1206  
 Mexico Av. Parque Chapultepec #66-201, Col. El Parque Edo. Mex. 53390, Phone: (52) 5358-5434, FAX: (52) 5358-5588  
 UK 4, The Willows Centre, Willow Lane, Mitcham, Surrey CR4 4NX, UK, Phone: 44 181 640 9600, FAX: 44 181 646 7084  
 Africa, Mid-East 12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-887-7424, FAX: 952-887-9212  
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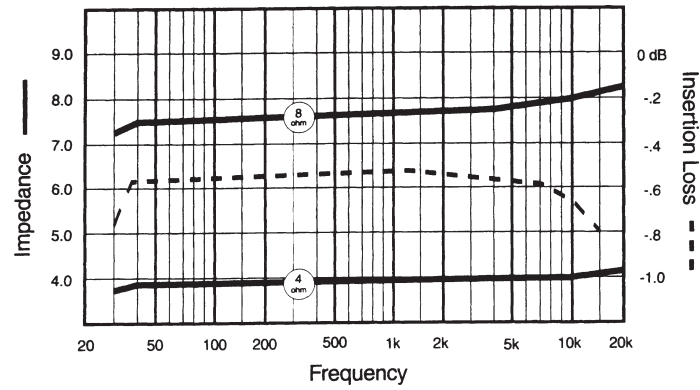
U.S.A. and Canada only.  
 For customer orders, contact the Customer Service department at  
 800/392-3497 Fax: 800/955-6831  
 For warranty repair or service information, contact the Service  
 Repair department at 800/685-2606

For technical assistance, contact Technical Support at 866/78 AUDIO  
 Please refer to the Engineering Data Sheet for warranty information.  
 Specifications subject to change without notice.

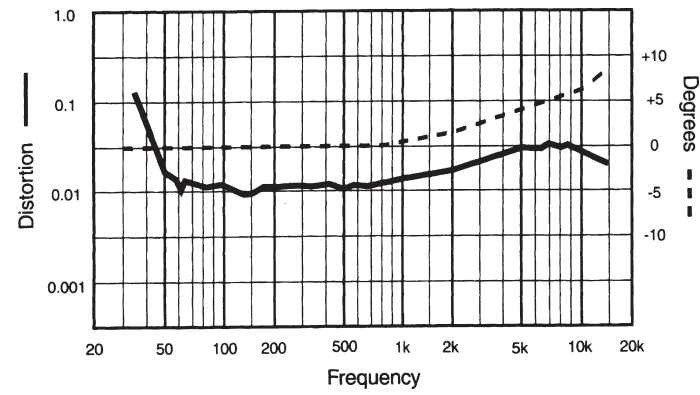
Electro-Voice®

KEY SPECIFICATIONS	15060	15075	15100	15150	15200	15300	15600
<b>Power Handling:</b>	60 watt	75 watt	100 watt	150 watt	200 watt	300 watt	600 watt
<b>Voltage Ratio:</b>							
4 ohm to 70V	1:4.5	1:4.0	1:3.5	1:2.8	1:2.5	1:2.0	1:1.4
4 ohm to 100V	1:6.4	1:5.7	1:5.0	1:4.1	1:3.6	1:2.8	1:2.0
8 ohm to 70V	1:3.2	1:2.9	1:2.5	1:2.0	1:1.8	1:1.4	1:1.0
8 ohm to 100V	1:4.6	1:4.1	1:3.6	1:2.9	1:2.5	1:2.0	1:1.5
4/8 term. to 70V	1:10.9	1:9.8	1:8.5	1:7.0	1:6.0	1:4.9	1:3.5
4/8 term. to 100V	1:15.4	1:13.9	1:12.0	1:9.8	1:8.5	1:7.0	1:4.9
<b>Impedance Ratio:</b>							
4 ohm to 70V	1:22.5	1:17.5	1:13.7	1:8.8	1:6.7	1:4.5	1:2.2
4 ohm to 100V	1:44.1	1:34.7	1:27.4	1:17.7	1:13.7	1:8.9	1:4.3
8 ohm to 70V	1:11.0	1:8.9	1:6.7	1:4.4	1:3.3	1:2.2	1:1.1
8 ohm to 100V	1:22.0	1:17.5	1:13.6	1:8.8	1:6.7	1:4.5	1:2.2
4/8 term. to 70V	1:21.9	1:18.2	1:13.1	1:8.7	1:6.5	1:4.5	1:2.4
4/8 term. to 100V	1:44.0	1:35.5	1:27.0	1:17.6	1:13.0	1:9.1	1:4.5
<b>Primary Voltage (Vrms)</b>							
4 ohm input	15.5	17.3	20	24.5	28.3	34.6	49
8 ohm input	21.9	24.5	28.3	34.6	40	49	69.3
<b>Secondary Loading (ohms):</b>							
70.7V output	83.3	67	50	33.3	25	16.7	8.3
100V output	167	167	100	67	50	33.3	16.7

Specifications



Typical Impedance & Insertion Loss



Typical Distortion & Phase Performance

## RECOMMENDED APPLICATIONS FOR OUTPUT TRANSFORMERS

