



15515A INPUT BRIDGING TRANSFORMER WITH RESISTIVE PAD



DESCRIPTION

The ALTEC LANSING Model 15515A Input Bridging Transformer is a line level transformer designed to "bridge" a low impedance source to a high impedance input while providing full transformer isolation. The transformer is internally mounted on a small printed circuit board to which optional resistors forming a resistive pad may be installed. This provides a convenient mounting location for a pad should one be necessary and the snap-a-part case facilitates installation. Tables of pre-calculated resistor values for typical losses are also provided. The plug-in transformer is an accessory for use with all Anniversary Series power amplifier products.

SPECIFICATIONS (Note: 0 dBu = 0.775 V rms)

Recommended Driving Source Impedance: <math><600\Omega</math>

Recommended Load Impedance: >15 k Ω

Turns Ratio
(primary:secondary): 1:1

Impedance Ratio
(primary/secondary): 15 k Ω /15 k Ω

Nominal Primary Impedance: 15 k Ω
(Ref. 1 kHz,
secondary terminated
with 15 k Ω load)

Maximum Input Level: +18 dBu (6.16 V rms)
(Ref. 20 Hz, 1% THD)

Total Harmonic Distortion
(below saturation):

20 Hz: <math><0.1\%</math>

1 kHz: <math><0.01\%</math>

Frequency Response: 30 Hz to 15 kHz, ± 0.5 dB
(Ref. 1 kHz,
0 dBu input level)

Phase Shift at 20 kHz: $< 28^\circ$
(Ref. 1 kHz,
0 dBu input level)

Bandwidth (-3 dB): > 50 kHz
(Ref. 1 kHz,
0 dBu input level)

Insertion Loss: < 1 dB
(Ref. 1 kHz,
0 dBu input level)

**Magnetic Shielding
Effectiveness:** > 30 dB

Choices for Pad Types: H-pad or balanced-T with
terminating resistor

Connector:

Type: Octal, male with
centering post

Wiring: Pin 1 = input (-)
Pin 2 = circuit common
Pin 3 = no connection
Pin 4 = chassis ground
Pin 5 = no connection
Pin 6 = input (+)
Pin 7 = output (+)
Pin 8 = output (-)

Dimensions: 1.6 in H \times 1.6 in W \times 2.0 in D
4.07 cm H \times 4.07 cm W \times
5.08 cm D

Color: Black

Weight: 3.16 oz (89.2 gr)

**Support
Documentation:** Equations to calculate resistor
values for pads
Table of pre-calculated resis-
tor values for typical losses.

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The accessory plug-in module shall include an input bridging transformer and printed circuit board with provisions for the installation of an internal resistive pad. The module shall be housed in an easy-to-open enclosure.

The transformer shall have a nominal primary impedance of 15 k Ω , a turns ratio of 1:1, a frequency response within ± 0.5 dB from 30 Hz to 15 kHz, a bandwidth in excess of 50 kHz, an insertion loss of less than 1 dB, a phase shift at 20 kHz of less than 28° , and a magnetic shielding effectiveness of more than 30 dB. In addition, the total harmonic distortion when driven below satura-

tion shall not exceed 0.1% at 20 Hz and 0.01% at 1 kHz.

The provision for the resistive pad shall accommodate "H" and "T" types of pads. A table of pre-calculated resistor values for typical losses shall be provided as a convenience.

The module shall be fully compatible with ALTEC LANSING's Anniversary Series power amplifier products.

The accessory plug-in module shall be the ALTEC LANSING Model 15515A Input Bridging Transformer with Pad.



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