

Attenuator board

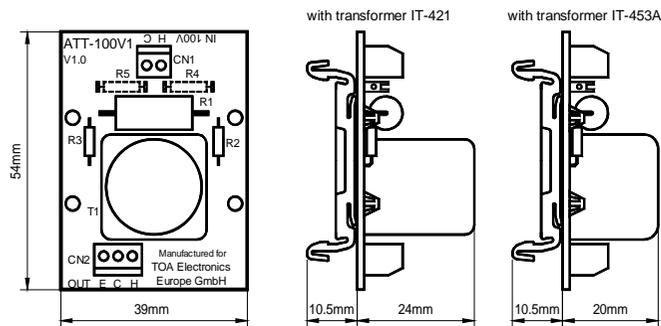
ATT-100V1

DESCRIPTION

The attenuator board ATT-100V1 is designed to transform a 100 volt signal from a power amplifier's speaker output to line level. The line level output is isolated from the 100 volt input and can be connected to line level inputs of power amplifiers and other devices. The board can be mounted on DIN rails by using the attached DIN rail brackets.

The attenuator board is designed for an attenuation ratio of 100 : 1.26, then the output signal is 2 dB above 0 dBV, i.e. 1.26 volt. This gives a headroom to adjust the gain of the connected device (e.g. power amplifier). It is possible to modify the attenuation ratio by adding resistors. The input impedance is set so that the SV-200M(A) module can detect an impedance within its detection range.

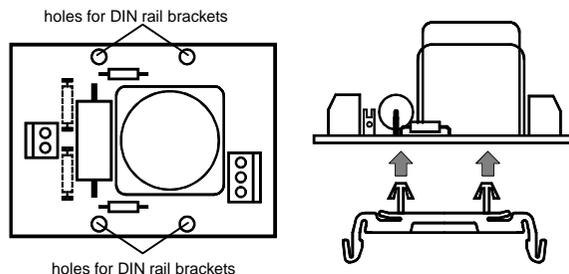
APPEARANCE



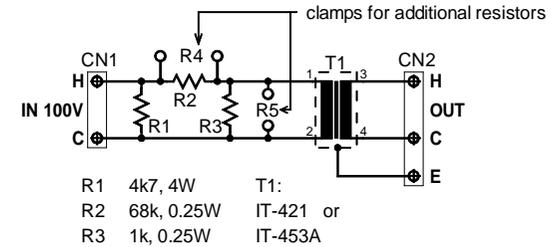
MOUNTING THE DIN RAIL BRACKETS

Push the attached DIN rail brackets into the holes for the DIN rail brackets as shown in the drawing on right side.

The clamps shall snap in so that the PCB is held by them.



SCHEMATICS AND MODIFICATION OF ATTENUATION

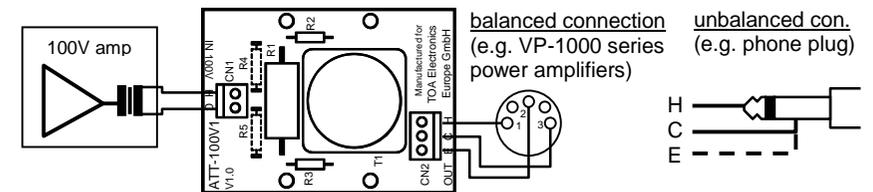


By soldering in resistors at the clamps for additional resistors it is possible to change the attenuation. The table below shows some resistor values for different attenuation:

no.	R4 *	R5	output voltage	output level	suitable for
1	-	-	1.25 V	+4 dBu / +2 dBV	VP-1000 series
2	330 k	-	1.6 V	+6 dBu / +4dBV	professional sound equipment
3	120 k	-	2.0 V	+8 dBu / +6 dBV	
4	-	1.5 k	780 mV	0 dBu / -2 dBV	
5	-	330	325 mV	-10 dBV	
6	-	100	120 mV	-18 dBV	A-series

* : the resistance of R4 must not be below 100 kohm

CONNECTION



SPECIFICATIONS

Input impedance	4.3 kohm (equal 2.3 watt @ 100V)
Min. output load	10 kohm (e.g. 10x VP-series power amp)
frequency response	50 Hz ... 20 kHz (0/-3 dB, typ.), 100 Hz ... 14 kHz (0/-3 dB, min.)