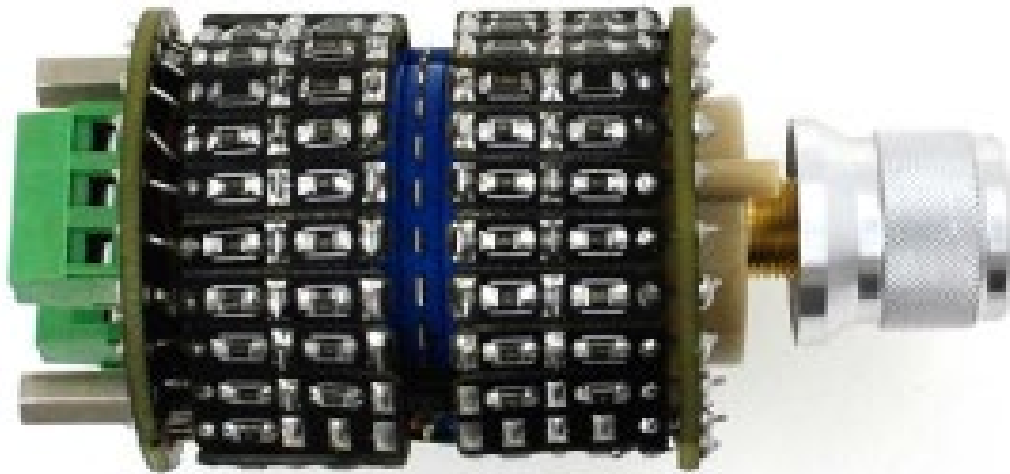


24-Step Ladder-Type Attenuator

10K Log – 2 Channel

INTRODUCTION

Our stepped attenuator is made with thin film resistors 0.1% 25 ppm. A perfect companion for any high end audio device.



FEATURES

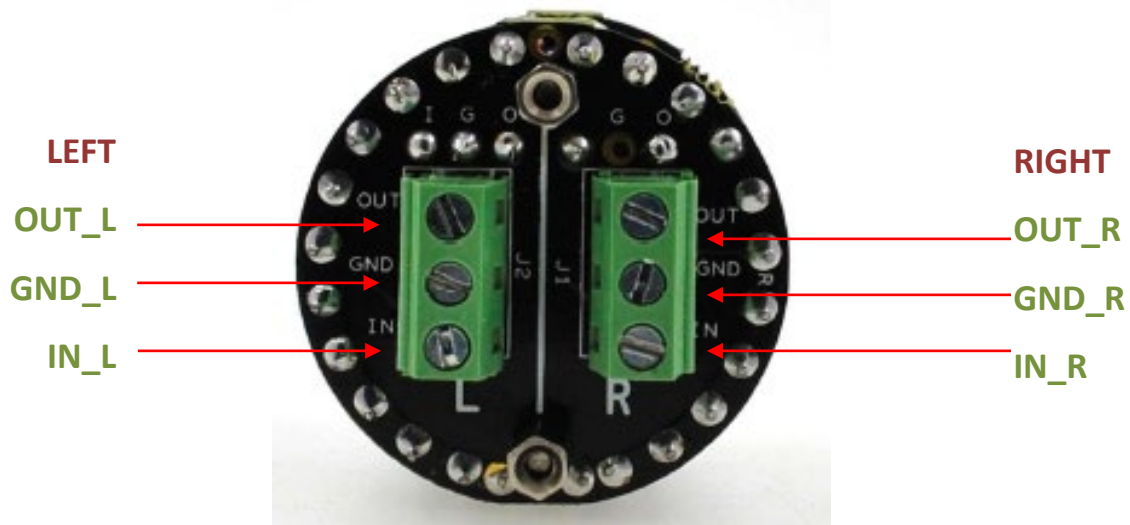
- ✓ E192 standard resistors with 24 step Attenuator
- ✓ Ladder type structure, 0-23 (24) positions
- ✓ Log scale attenuation
- ✓ Rotary is Made-before-break
- ✓ The available value is 10k

(Please contact to our [sales department](#) for other customized values)

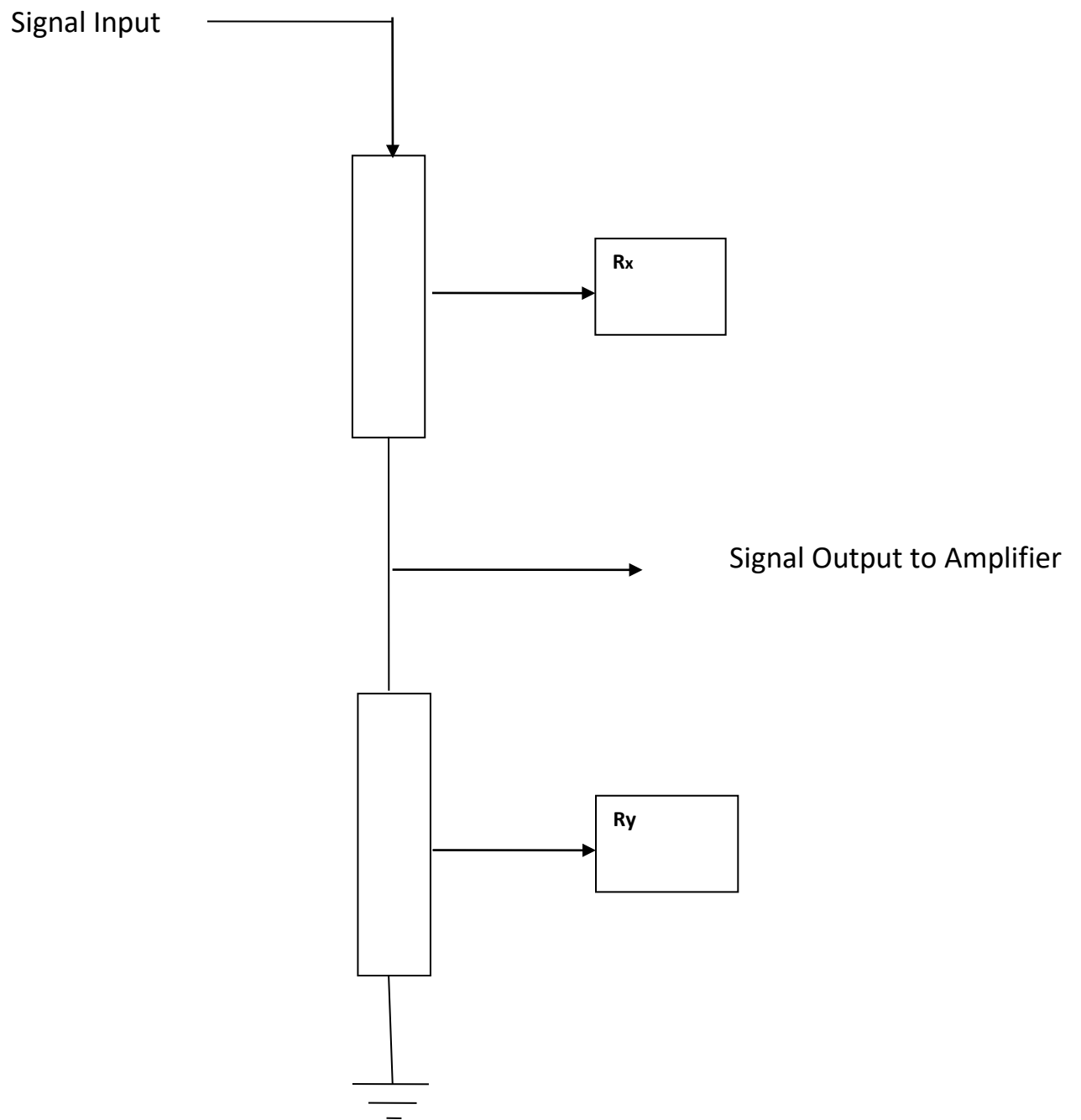
Specifications	
Type:	Log Attenuation
Resistance:	10K
Attenuation:	0-75dB
Resistor Standard:	E192 (SMD)
Channels:	2 (Left and Right)
Steps:	24 (0-23)
Resistor Network:	Ladder
Dimensions:	Height: 81.2mm Diameter: 39mm
Weight:	82gms

TERMINAL CONNECTIONS

Right channel signals IN_R ,GND_R and OUT_R respectively connect to signal input, GND and Signal out. Similarly Left channel signals IN_L, GND_L and OUT_L respectively connect to input, GND and Signal output points.



The ladder-type resistor network consists of resistors R_x and R_y in series as shown in below diagram. For one channel, there are 24 pairs of R_x and R_y . Therefore, there are totally 48 pairs of resistors for two channels. The total equivalent resistance of each resistor pair is $R_T = R_x + R_y$; these values are kept the same, so that the input resistance is more or less the same for all position (Ideally we want it to be constant).



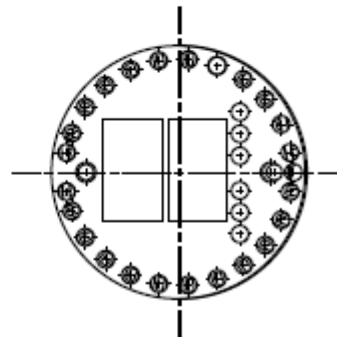
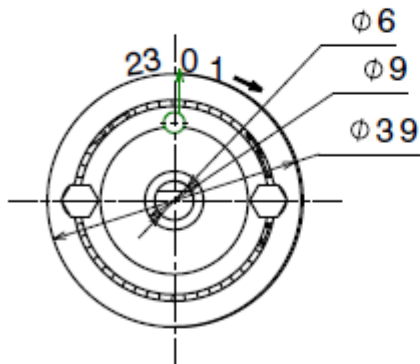
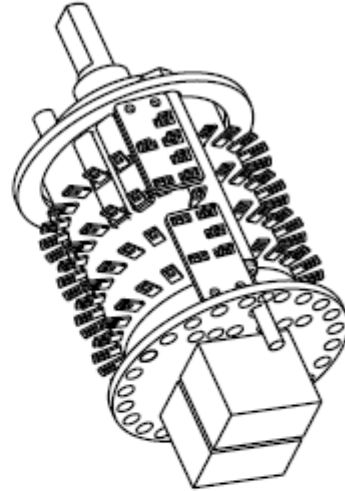
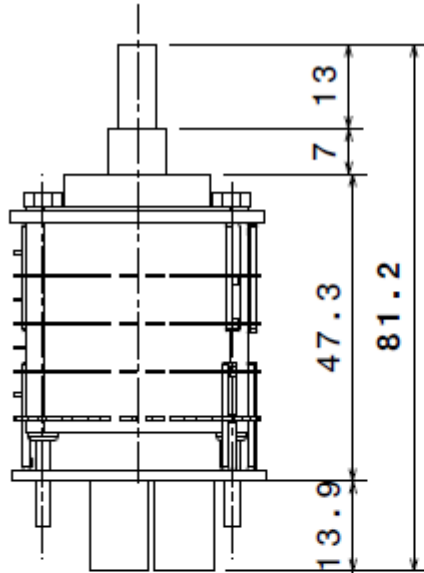
RESISTOR TABLE

values of Rx, Ry and corresponding attenuation in dB specified on the below resistor table. RT is set to 10K.

Steps	Attenuation in dB: Right / LEFT	Rx in Ohms	Ry in Ohms
1	Infinity	10000	0
2	-74.0	10000	2
3	-67.9	10000	4.02
4	-63.1	10000	6.98
5	-57.7	10000	13
6	-53.1	10000	22.1
7	-48.0	10000	40.2
8	-43.0	9880	70.6
9	-38.9	9880	113
10	-35.0	9880	178
11	-32.0	9760	252
12	-29.0	9650	357
13	-26.1	9530	499
14	-23.0	9310	706
15	-20.0	8980	1000
16	-16.9	8560	1420
17	-13.9	7960	2000
18	-12.0	7500	2520
19	-10.0	6810	3160
20	-8.0	6040	3970
21	-6.0	4990	4990
22	-4.0	3700	6340
23	-2.0	2050	7960
24	0.0	0	10000

NOTE: The table contains actual resistor values. Attenuation (in dB) measured with Allo PIANO DAC & VOLT test setup

DIMENSIONAL DETAILS



* All dimensions are in mm