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Volume relayRelay Attenuator controlled by Arduino

Volume control relaysStage Left Audio - Input Attenuators Volume DIY

RelaiXedPassive -- audio attenuator 64 Steps - IR SONY

Motorized Elma Relay Attenuator 64 steps - ReviewHow To: Glasshouse Stepped

Mono Stepped Attenuator ~~How To Assemble A Mono/Stereo Ladder Stepped~~

Attenuator Relay Attenuator controlled by Arduino 2 DIY audio attenuators part 1 :

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Arduino Volume Controller

5simple Circuits: How to use a PotentiometerHow does a volume control work? How to replace your potentiometer with a glasshouse stepped attenuator ~~Does digital volume control really suck? [Review] Volbox – A simple audio volume control knob for anything~~ Pure2 Signal Path For a Typical Mastering Set Up ALPS RK50

attenuator volume control stereo glass DIY stepped attenuator Arduino volume control with 6 relays ~~Audio Volume Relay Attenuator With~~

This attenuator design has the following features/characteristics: Compact and simple circuit: just 6 tiny relays implement a 64-step logarithmic stereo attenuator. The 64 steps of 1.0dB together span a 63dB audio attenuation range. By avoiding any active electronics, a very clean and open sound is maintained. An IR receiver allows remote control.

~~Audio Volume Relay Attenuator with IR Control~~

Relay Attenuator for Piano, Piano 2.1, Boss DACs. Nominal value is 10k. Simply plug in above your DAC and then take the output attenuated by relays switching, to thin film 0.1% 25ppm SUSUMU audio grade resistors. Relay Attenuator Measurements and Graph V3_080617 (Excel File)

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~~Relay Attenuator 10k Stereo - allo.com~~

SOLUPEAK C3r RCA Stereo Audio Signal Volume Control knob attenuator Passive Preamp. 4.5 out of 5 stars 9. \$28.99 \$ 28. 99. Get it as soon as Wed, Nov 25. FREE Shipping by Amazon. Volbox inline audio volume control attenuator 3.5mm 1/8" aux mini. 4.2 out of 5 stars 93. \$19.99 \$ 19. 99.

~~Amazon.com: rca attenuator~~

The relay-switched attenuator volume control. Background. For many years I've been thinking about the best way to control the volume in a remote-controlled preamplifier with the minimum loss of transparency, and I decided long ago that the a relay-switched attenuator was the ultimate solution. In fact I put together a couple of PCBs with 30-step (2dB) attenuators nearly fifteen years ago ...

~~The relay-switched attenuator volume control~~

Benchmark has introduced a new analog-to-analog volume control circuit that features a 256-step relay-controlled attenuator and a 16-step relay-controlled boost amplifier. The volume control has a +15 dB to -122 dB range in 0.5 dB steps and is a key component in the HPA4 Headphone / Line Amplifier. Our goal was to produce an analog-to-analog volume control with the highest achievable transparency.

~~Relay Controlled Volume - The Ultimate Solution for Analog ...~~

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Resistor-Switch Networks for Audio Volume Control. This page provides background information to construct controllable attenuators for electronic signals, in particular targetting audio volume control. Different circuits are shown with their pros and cons.

~~Resistor-Switch Attenuator Networks for Audio Volume Control~~

Shunt volume It is the newest trend in volume control, it reduce the components in the signal path so it promises better performances, near or better than DACT if high quality resistors are used. There are many good articles about this attenuator like the Logarithmic resistor ladder and Logarithmic Attenuator Calculator.

~~R2R Shunt Volume with 3 selectable ... - Audio Design Guide~~

Re: Volume Control Kits Using Relays... Each year at the Burning Amp fest in San Francisco there is a small company that shown off some cool electronics projects. They use Arduino to program PICs control their gear, and one product that I recall from 2 years ago was a high quality relay attenuator.

~~Volume Control Kits Using Relays... - Techtalk Speaker ...~~

A ladder attenuator ' s job is to provide various levels of voltage attenuation while keeping either its input or output resistance constant. The number of required steps of attenuation determines the number of relays one will need. With one relay you will have 2 to the power of 1 steps, so 2.

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~~La Skala Attenuator | Dimdim's Blog~~

However, relay attenuators do have a couple of advantages, among which that they can be built for a reasonable cost. A stepped attenuator also has very good channel matching, but whereas even the expensive DACT only gets you 24 steps, typically with 2dB between them, 128 or even 256 steps of 0.5dB each are quite easily achieved with relays.

~~relay attenuator | theslowdiyer~~

Joshua Tree is a logarithmic stepped attenuator with 128 steps + mute. It utilizes eight Omron G6K relays and can be setup for any degree of attenuation per step and any total amount of attenuation. The kit uses Vishay/Dale 1% CMF resistors, providing 0dB to -63.5dB of attenuation (+ mute) in .5dB steps.

~~Joshua Tree - A Twisted Log Attenuator - Twisted Pear Audio~~

Audio Solutions from Elma with perfection in sound for home and studio (audio and entertainment). With innovative products like the Remote Audio Plus and Relay Attenuator, Elma ' s wide range of products contains hybrid electronic / mechanical products and fully switch-free solutions. Elma ' s Audio Solutions products are driven by customer input to address an ever-evolving market.

~~Audio Solutions - Elma Electronic~~

1 ("delta 1") is a high-end stereo stepped attenuator implemented in a R-2R

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resistor ladder topology. It uses high quality miniature latching relays and precision discrete resistors to achieve a level of performance unattainable with conventional potentiometers or mechanical switch-based rotary stepped attenuators. 1 is designed to be controlled by the LCDuino-1 Display I/O Processor platform, which provides a front panel status display, infrared remote control support, front panel ...

~~The 1 relay based R-2R stereo attenuator~~

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~~Click-click! A relay based attenuator... | theslowdiy~~

Conic Flow™ Circular Attenuators. Conic-Flow® Circular Attenuators are available for attenuator applications including low-frequency silencers having acoustic performance specifically engineered for the 63 Hz, 125 Hz and 250 Hz octave bands.

~~HVAC Attenuators - Acoustic Silencers and Attenuators ...~~

TentLabs Volume control "Clean and transparent sound, easy application, incredible specs " Customer feedback " My point is, this is a very good stepped attenuator indeed, it beats the DACT CT2 by quite some margin, which I've been using for some

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time (2 years). And its fully remote with 64 steps on the gain and 4 inputs all via little relays which are quite audible.

~~Volume control - TentLabs~~

It is a true attenuator, and it does not add any distortion to the audio signal. This attenuator design inherits important concepts of my earlier RelaiXed preamplifier designs: It uses tiny relays for volume control and input selection. The volume control provides 64 steps with approximately 1dB step size.

~~RelaiXedPassive - audio attenuator~~

Audio Volume Relay Attenuator with IR Control Posted on Tuesday, March 24, 2009

- Category: Audio Attenuators The circuit provides both audio volume and input channel selection. A stepwise volume control is implemented with a set of tiny relays and RN60D / RN55D Dale resistors.

~~Circuit-Zone.com - Electronic Projects, Electronic ...~~

Overview: Relay Attenuator for Piano, Piano 2.1, Boss DAC. Nominal value is 10k. Simply plug in above your DAC and then take the output attenuated by relays switching, to thin film 0.1% 25ppm SUSUMU audio grade resistors.

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Small Signal Audio Design is a highly practical handbook providing an extensive repertoire of circuits that can be assembled to make almost any type of audio system. The publication of Electronics for Vinyl has freed up space for new material, (though this book still contains a lot on moving-magnet and moving-coil electronics) and this fully revised third edition offers wholly new chapters on tape machines, guitar electronics, and variable-gain amplifiers, plus much more. A major theme is the use of inexpensive and readily available parts to obtain state-of-the-art performance for noise, distortion, crosstalk, frequency response accuracy and other parameters. Virtually every page reveals nuggets of specialized knowledge not found anywhere else. For example, you can improve the offness of a fader simply by adding a resistor in the right place- if you know the right place. Essential points of theory that bear on practical audio performance are lucidly and thoroughly explained, with the mathematics kept to an absolute minimum. Self ' s background in design for manufacture ensures he keeps a wary eye on the cost of things. This book features the engaging prose style familiar to readers of his other books. You will learn why mercury-filled cables are not a good idea, the pitfalls of plating gold on copper, and what quotes from Star Trek have to do with PCB design. Learn how to: make amplifiers with apparently impossibly low noise design discrete circuitry that can handle enormous signals with vanishingly low distortion use humble low-gain transistors to make an amplifier with an input impedance of more than 50 megohms transform the performance of low-cost-opamps build active filters with very low noise and distortion make incredibly accurate volume controls make a huge variety of

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audio equalisers make magnetic cartridge preamplifiers that have noise so low it is limited by basic physics, by using load synthesis sum, switch, clip, compress, and route audio signals be confident that phase perception is not an issue This expanded and updated third edition contains extensive new material on optimising RIAA equalisation, electronics for ribbon microphones, summation of noise sources, defining system frequency response, loudness controls, and much more. Including all the crucial theory, but with minimal mathematics, Small Signal Audio Design is the must-have companion for anyone studying, researching, or working in audio engineering and audio electronics.

June issues, 1941-44 and Nov. issue, 1945, include a buyers' guide section.

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Back to Basics Audio is a thorough, yet approachable handbook on audio electronics theory and equipment. The first part of the book discusses electrical and audio principles. Those principles form a basis for understanding the operation of equipment and systems, covered in the second section. Finally, the author addresses planning and installation of a home audio system. Notes on home theater systems, speaker placement and calibration System planning, diagram analysis, and signal processing Easy introduction to practical audio, acoustics, and electrical theory

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