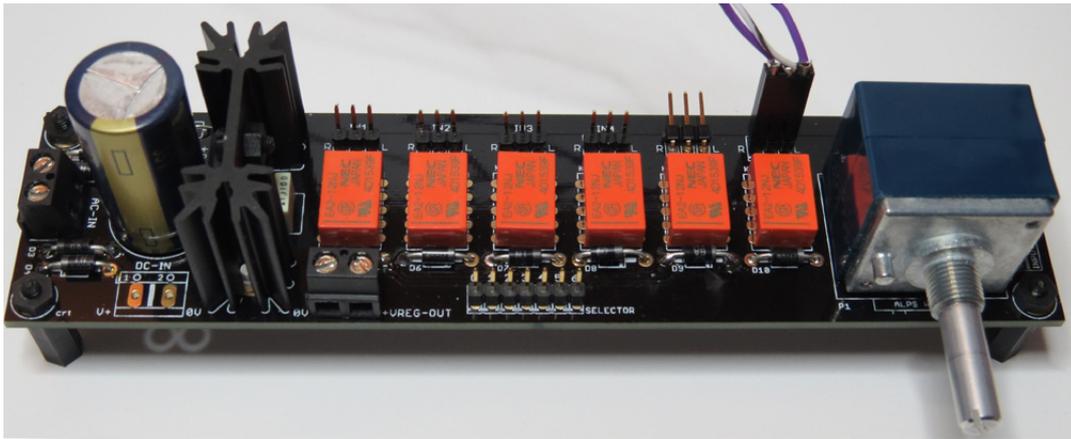


Mezmerize Type Input Selector Module



This board accepts six high quality mini relays for the selection and routing of stereo audio inputs through a volume pot to a preamplifier. Based on the reliable input section design of the popular Mezmerize buffer it can be useful in any other preamp project as an input module. Or even used as a standalone passive preamp.

It has its own rectification & smoothing section accepting AC-IN and a bypass DC-IN connector. One or the other type of voltage must be fed in, not both. A 7812 regulator stabilizes power to the relays. There is a sink provision for that chip if external peripherals are being powered also when utilizing the 12V +VREG-OUT connector.

Any number of relays between 2-6 can be populated making for a respective number of switchable stereo inputs. Incoming and outgoing wires are connecting to headers or directly soldered on the back edge IN/OUT pads. Locate the board near the back panel as well as away from transformers.

The six positions rotary selector switch can be continuous type or a stop type that also sets for less positions. You can expand the number of inputs later. Typically Alpha Taiwan or Lorlin CK series. The switch is not engaging the signal. Don't spend on expensive switches.

If with a two pole type, half of it is left unused. But it can be used for front panel source selection Led indicators. When needing a couple of inputs only even a toggle switch can suffice.

The volume control area directly sits ALPS Blue or compatible sized pots. Face the shaft towards the RK-27 designation. Extend it with a rod to the front panel. Mounting on a nearby bracket or on the front panel and wiring back to the PCB is doable also. Various non PCB fitting types like Cosmos, TKD, Audio Note, Noble or big stepped attenuators can also be mounted in such ways.

SPEC

Dimensions: 160 mm X 39mm

Input voltage: 12-22V AC IN or 15-30V DC IN raw / regulated

Output voltage: 12V regulated DC OUT 1A maximum (with sink)

Input / output Impedance: Depends on the pot value specified for each preamplifier design

PARTS

D1-D10 1N4003 (diodes x10)
 IC1 LM7812
 K1-K6 NEC EA2-12NJ (relays x6)

3PIN Molex 2.54mm pitch male headers (x7)*

2PIN Molex 5mm pitch screw terminals (x3)*

*if not skipped for direct wire soldering

C1 2200uF/35V 16mm D 7.5mm lead pitch.
 C2 100nF 63V 5mm lead pitch MKT
 R1 10K 1/4W
 LED (ON) 3mm any color (x1)

Extra resistor as R1 and more LEDs (up to x6) when using source selection panel indicators

SINK (optional) Wakefield 637-10ABPE or equivalent

P1 ALPS RK-27 or choice (see last paragraph in the main text)

SELECTOR 1POL or 2POL 6POS rotary switch (Alpha, Lorlin)

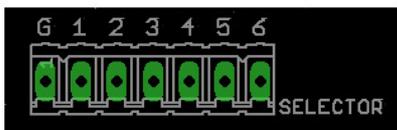
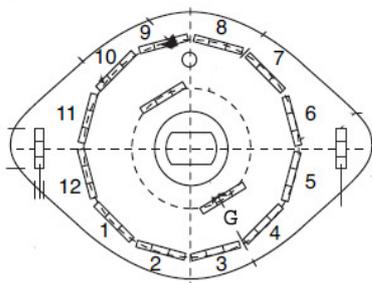
Transformer 12VAC 12VA model (when using a dedicated power transformer for this board)

Connection Details

Alpha Taiwan selector example

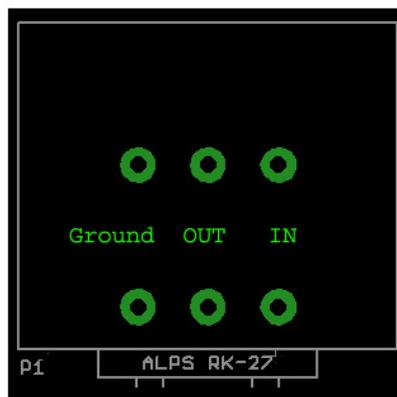
Pole contact (G) connects to PCB G

Contacts 1-6 connect to PCB 1-6



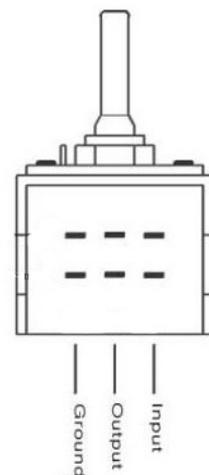
Volume control area top view

pot's front is facing down



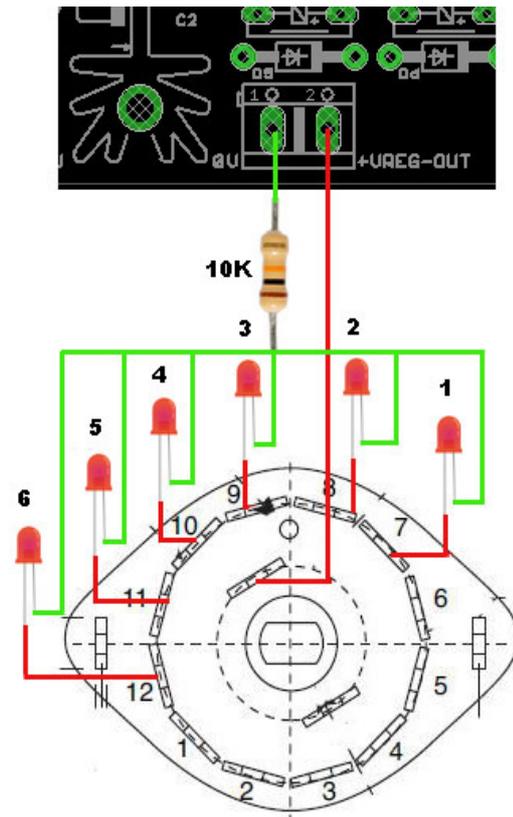
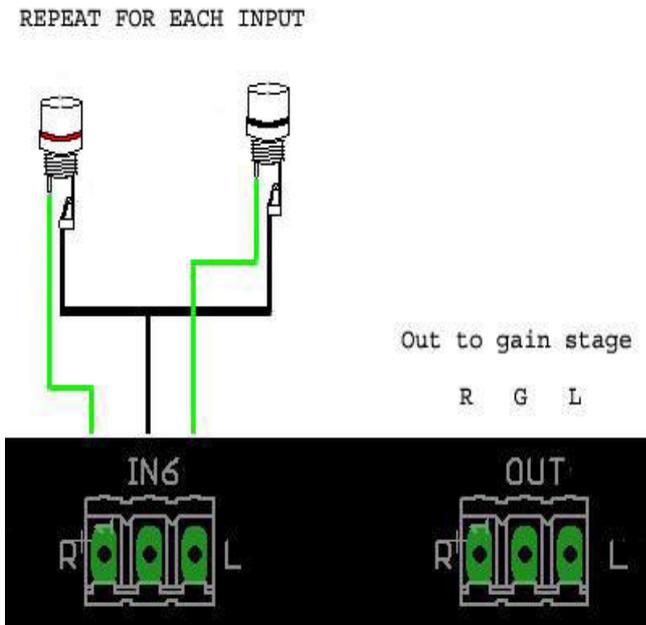
Alps Blue pins

bottom view



Female RCA wiring to inputs

Utilizing a 2 Pole switch's half for panel Leds



The non populated board

