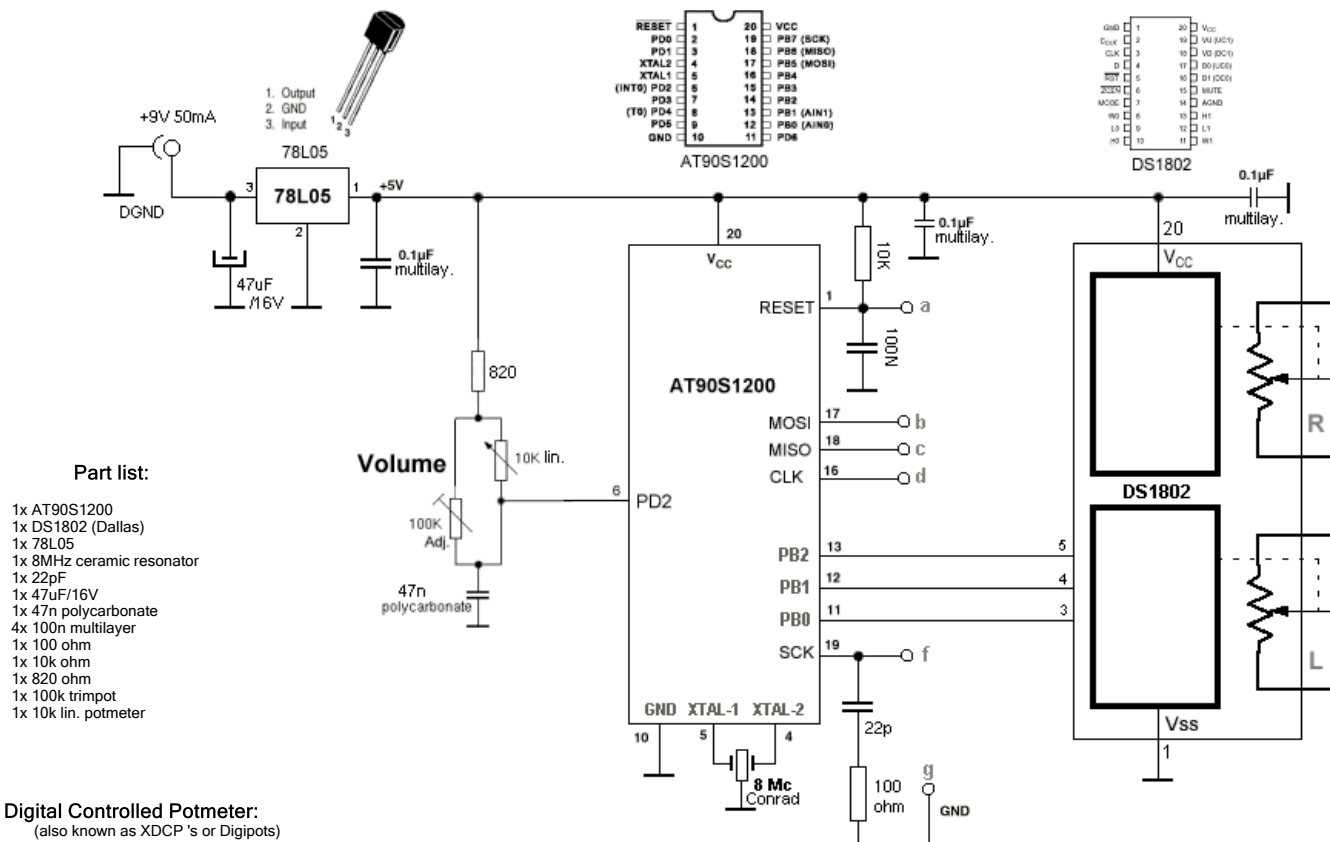




DS1802 Digital Volume Control

Controlling a Dallas DS1802 by an AT90S1200 with a normal potentiometer



With this circuit you're able to control a Dallas DS1802 digipot with a normal potmeter. The DS1802 has 64 wiper positions (6bit), each step is -1dB attenuation, and is controlled by serial data, thus easy to steer with a microcontroller.

The software....

Here you can [download](#) the datasheet of the DS1802.

Here the [hex-dump](#) (GNU). You can upload this hex data into the AVR with this [programmer](#).

DS1669 Digital Potmeter UP/DOWN

Controlling a Dallas DS1669 by an AT90S1200 with a normal potentiometer

Part list:

1x AT90S1200-12PI
 1x DS1669 (Dallas)
 1x 78L05
 2x 1N4007
 1x 4MHz X-tal
 2x 27pf
 1x 22pF
 1x 47uF/16V
 1x 100n polycarbonate
 3x 100n multilayer
 1x 100 ohm
 1x 10k ohm
 1x 820 ohm
 1x 100k trimpot
 1x 10k lin. potmeter

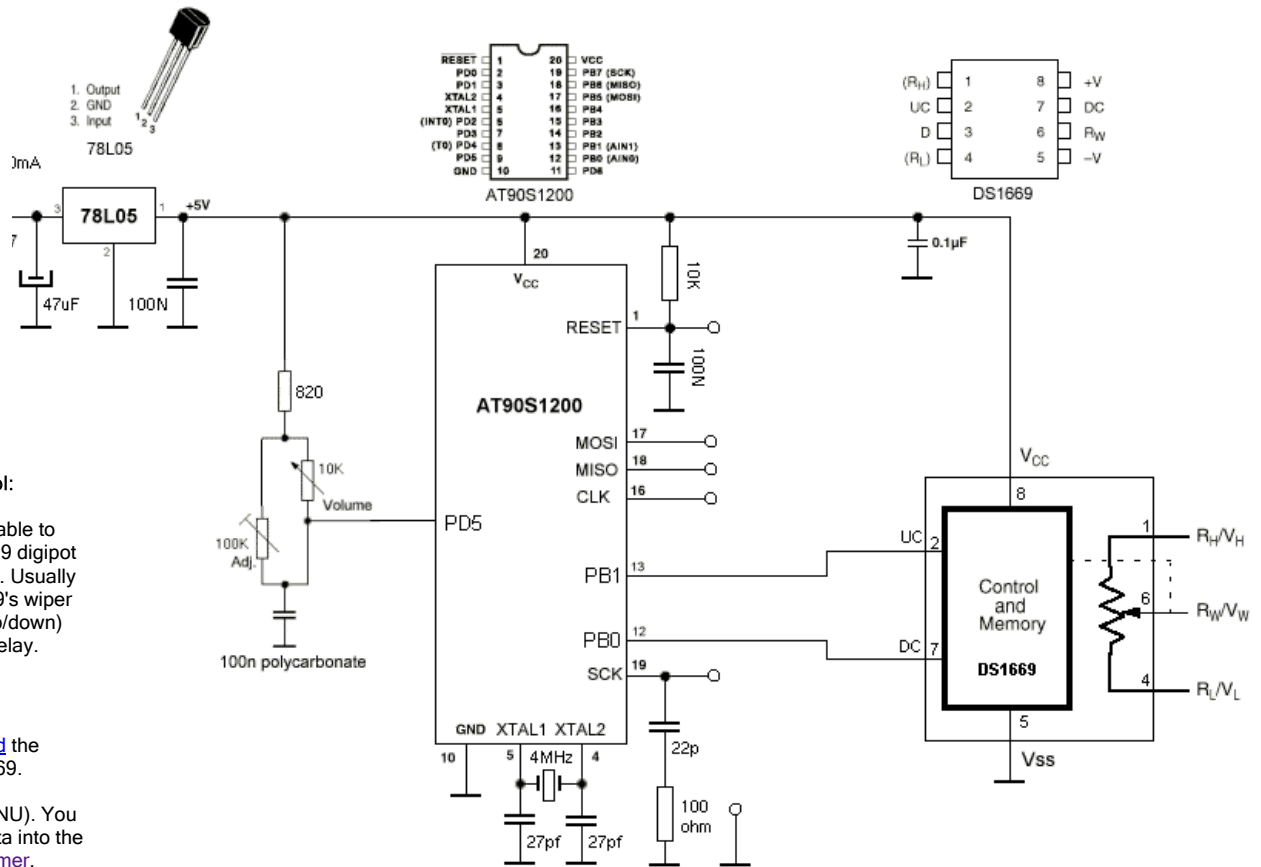
DS1669 Digital Control:

With this circuit you're able to control a Dallas DS1669 digipot with a normal potmeter. Usually you control the DS1669's wiper with 2 push buttons (up/down) Disadvantage: Slight delay.

The software....

Here you can [download](#) the datasheet of the DS1669.

Here the [hex-dump](#) (GNU). You can upload this hex data into the AVR with this [programmer](#).



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