



Electro-Resales LLC

Think-Design-Make

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10 to 1 Multi Output Divider Board

Quick Start Guide

The multi Output divider board takes an input frequency between 1 & 20 MHz and provides 5 outputs labelled A – E, each output being a division of ten from the last output. For example:

Input = 10 MHz

Output 1 or A = 1MHz

Output 2 or B = 100KHz

Output 3 or C = 10KHz

Output 4 or D = 1KHz

Output 5 or E = 100Hz

All outputs are active upon application of the input frequency and application of suitable power (9-24 VDC, center positive 2.1mm barrel jack).

An LED is connected to a 6th division output that for a 10MHz input would flash at 10Hz.

Input frequency is applied to the BNC jack, while each output is an RCA jack. Power is applied to the barrel jack which is center positive. The jack is a 2.1 mm style and any DC voltage between 9 and 24 VDC will suffice.

Please note that some low cost switching power supplies can introduce noise on the power rails, this noise may be seen on the outputs.

The input type is mirrored on each output, so a square wave input will output divided square waves, no signal processing to normalize the waveform is incorporated on the PCB.

For assistance contact us at: steve@electroresales.com

A schematic is included on the next page.



NOTES:

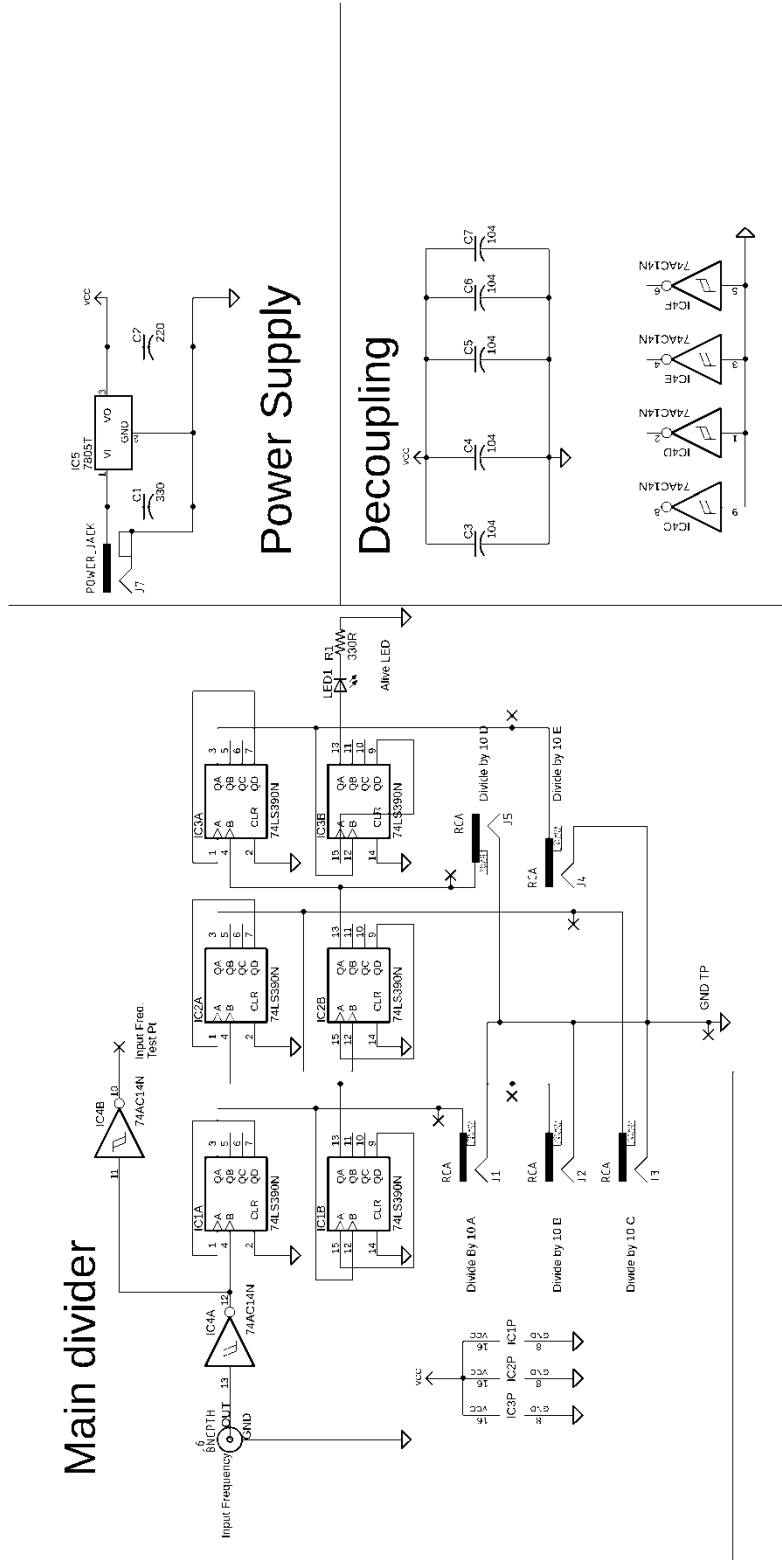
The divider board takes an input frequency of between 1 MHz and 20 MHz and using 74HC390 dividers produces 5 outputs, each a division by 10 of the last output. For a 10M input the following outputs exist:

A = 1M, B = 100K, C = 10K, D = 1K, E = 100Hz

A LED is connected to the last divider and for a 10M input would flash at 10Hz

Test points for the input frequency and all outputs (except the LED output) are available, outputs are via RCA jacks.

Power to the board is via a 2.1mm Barrel Jack with center pin positive, power can be from 9 - 25 VDC.



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