LS9200X-02

LS9200 application board with dual strings of LEDs and dual dimming modes

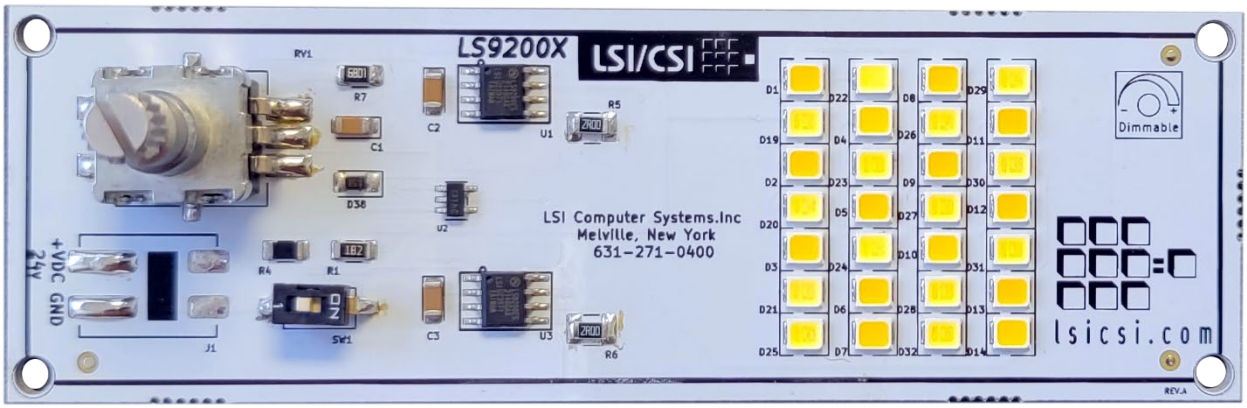
August 2022

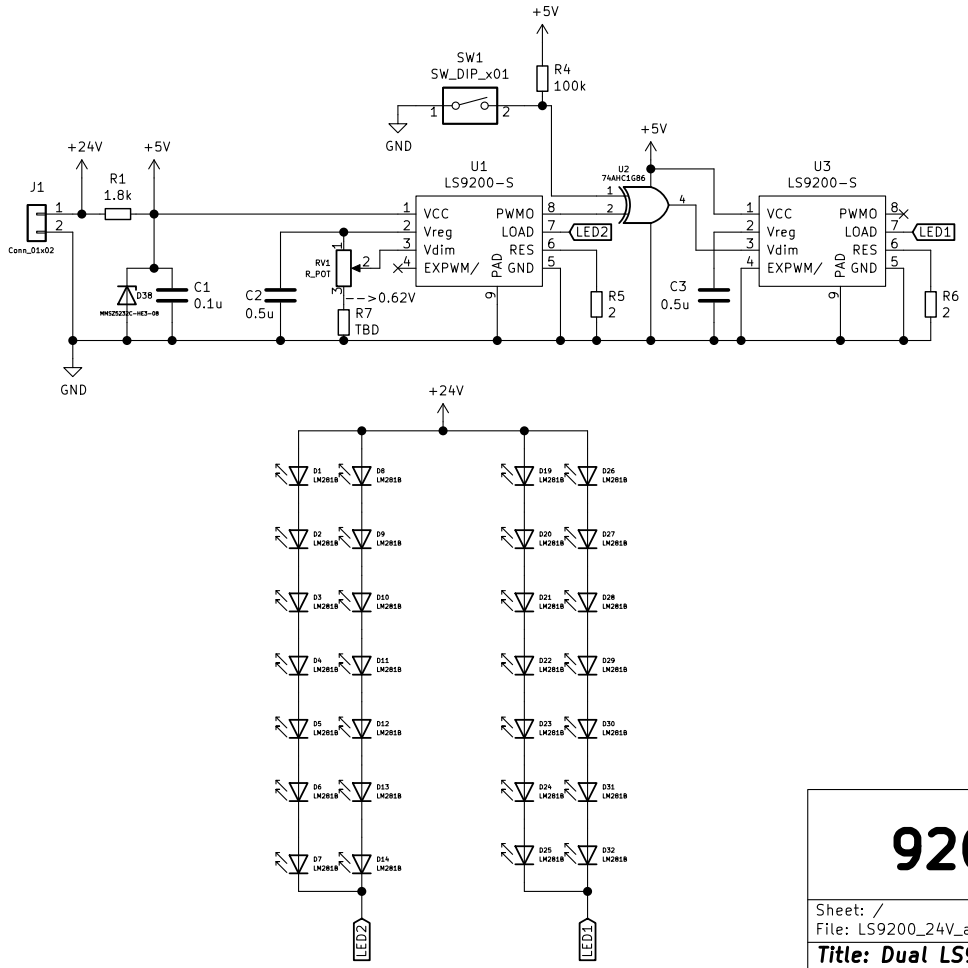
LS9200X-02 is a heat sinking Aluminum substrate circuit board designed to facilitate the evaluation and application of LS9200, a CMOS LED driver IC. The board is complete with two separate banks of LEDs one of cool white (6500K CCT) and the other of warm white (3000K CCT). The brightness' of the two LED banks can be varied with an on-board rotary potentiometer. The brightness' of the two LED banks can vary in unidirectional mode or in reverse directional mode. The directional modes are selected with an on-board toggle switch. In the unidirectional mode the brightness' of the two banks vary in lock step in the same direction so that the resultant brightness varies between the minimum and the maximum. In the reverse mode the brightness' of the two banks vary as complements of each other causing the combined light output to change in color from warm to cool or vice versa. In the reverse mode the total light output remains constant changing only in color.

Applications: LS9200 IC evaluation, offline LED lighting, color changing LED dimmer.

Specifications.

Supply Voltage, VS:	+23VDC to +25VDC
LED current:	200mA typical each bank @VS = 24VDC
LED dissipation:	3.78W max each bank @VS = 24VDC
Light output:	660lm max each bank @VS = 24VDC
Light output (unidirectional):	0 to 1320lm bank1+bank2 @VS = 24VDC
Light output (reverse-directional):	660lm constant bank1+bank2 @24VDC
Board dimension:	4.325"x1.38"; 110mmx35mm





9200X-2

LSI/CSI

Sheet: /
File: LS9200_24V_analogDim.sch

Title: Dual LS9200 based LED Engine

Size: A4	Date: 2020-1-27	**Rev: A**
LSI/CSI a Semiconductor Company		Id: 1/1