

7-SEGMENT DISPLAYS ON MAX 10 PCB

Figure 1 shows the two 7-segment displays on the **MAX 10** PCB. The arrangement of each of the active-high LEDs on the two 7-segment LED devices are shown in Figure 2.

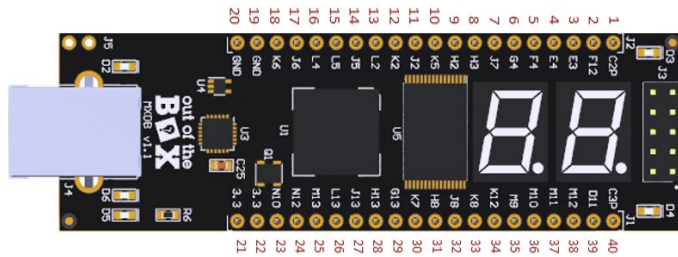


Figure 1: **MAX 10** PCB image. The 7-segment displays are parts **U8** (left) and **U7** (right).

The left most 7-segment display on the **MAX 10** PCB is labeled as **U8** in the schematic (see **bottom** of Figure 3) and the right one is **U7** (see **top** of Figure 3).

The corresponding **MAX 10** pins for each of the 7-segment display segments is shown in Figure 4.

7-segment displays are made by many companies, and the parts change regularly, but a specification sheet for one that we have used often is available [here](#).

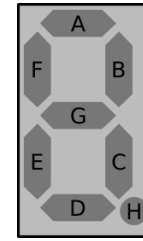


Figure 2: LED arrangement on 7-segment

7-Seg Segs	MAX 10 Pins	7-Seg Segs	MAX 10 Pins
U7-A	D9	U8-A	H10
U7-B	C9	U8-B	F8
U7-C	G12	U8-C	E8
U7-D	L10	U8-D	J12
U7-E	K10	U8-E	H9
U7-F	J9	U8-F	J10
U7-G	E6	U8-G	L11
U7-DP	E12	U8-DP	E9

Figure 4: 7-segment display inputs with corresponding **MAX 10** pins.

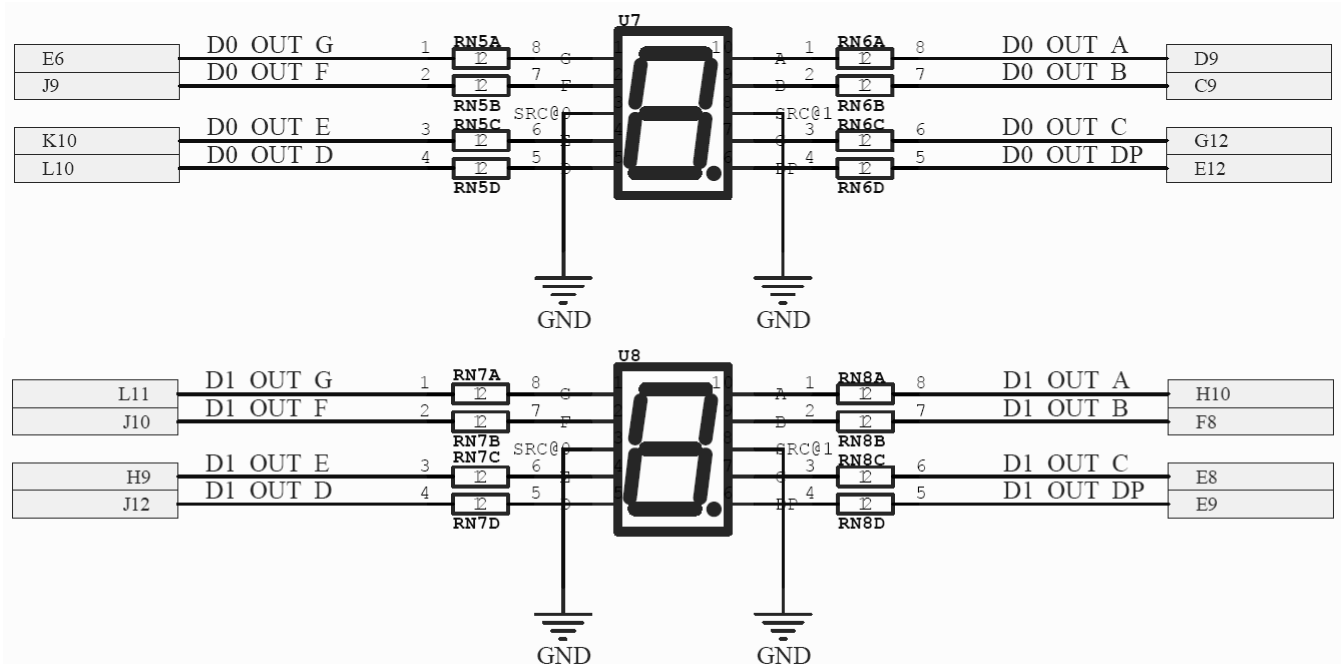


Figure 3: **MAX 10** PCB image. The 7-segment displays are parts **U7** (left) and **U8** (right).