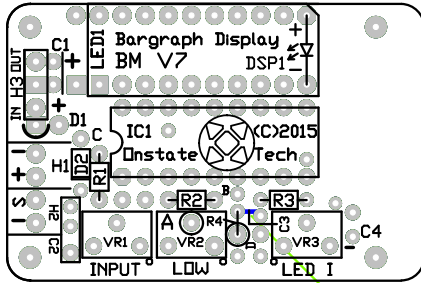
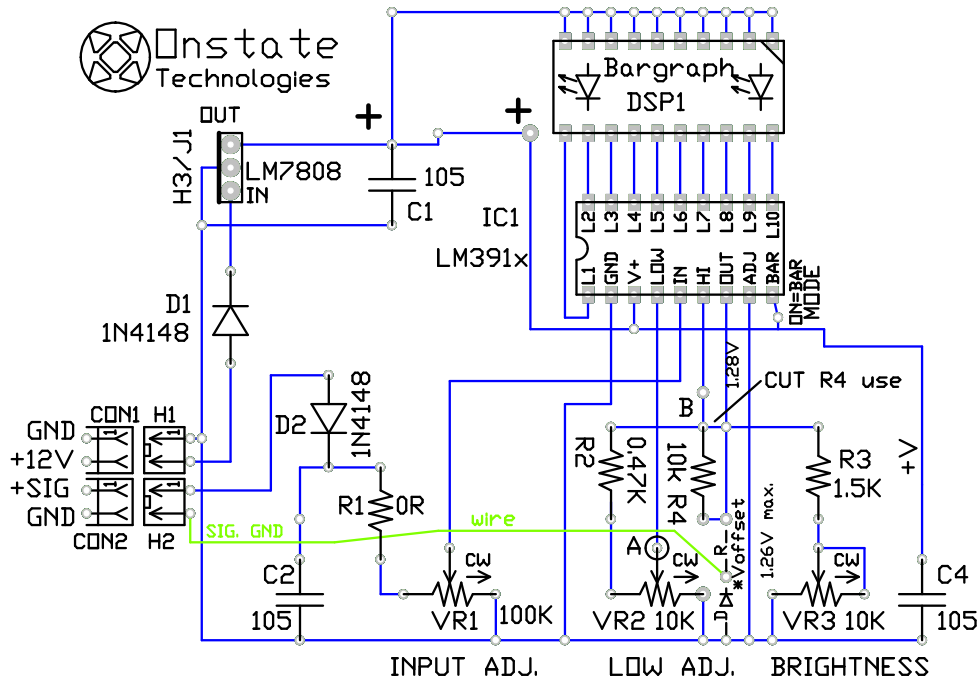


Low AC Input Bargraph Display Meter



Parts Labels

Bottom trace cut for R4 use



C2+VR1 = display decay response timing

Part: BM-V7 (C)2017

Low input AC signal bargraph voltmeter.
0.40V-2.0V full scale input.

All *-ND are Digi-Key part codes (Digi-key.com)

All resistors: 1/8W, 5%

(value)EBK-ND, eg. 47KEBK-ND (47K)

Trimmer resistors (VR), Cermet, PC pins

3362P-(VALUE)LF-ND, top adj. 103=10k, 104=100k

D1: 1N4148, general Si diode, 0.2A

J1/H3: Jumper, LM7808, 8V reg, 1A

Caps C: mono cer. 104=0.1uF, 103=0.01uF, 105=1.0uF

C1: power filter, any type >1.0uF on +/-

IC1: LM391xN-1-ND, 10 seg. bargraph driver

R4 sets HI (B) reference voltage (1.26V).

R4: Not Used=1.25V full scale.

Cut bottom trace near R4 (pin 6/7, B).

R4: 10k=0.4-0.65V HI (B) full scale. Keep R4<47k.

*Voffset: for low AC signal input.

R=4.7-10k, D=1N4148, +0.6V to D2

connect Voffset to AC input ground.

DISP1: 160-1067-ND, 10 seg. LED bargraph, GRN

Display Dot/Bar mode:

1. Cut trace on bottom side near MODE label to pin9