



DSP004 Intelligent Character Display

Bezel and Lens Mounting Assembly Instructions

Pronto Electronic Displays LLC

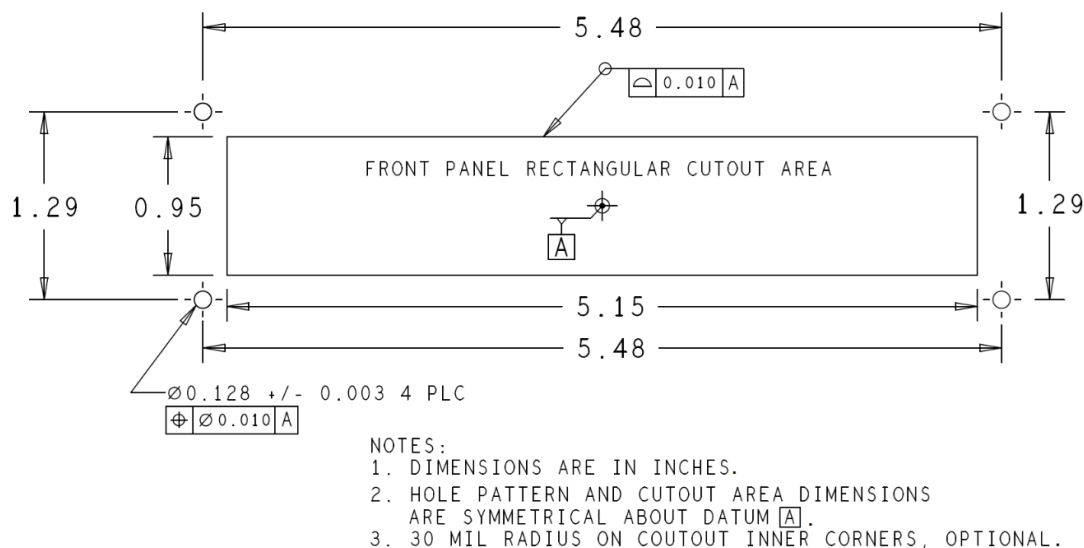
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1.0 Panel Cutout and Mounting Hole Dimensions

Following information is provided for customer use for fabricating a mounting panel for the DSP004 display unit. A mounting panel is not included in the Bezel/Lens and Mounting Kit.



Note positional tolerance of 10 mils diameter for the (4) 0.128 +/- 3 mils dia. mounting holes, as shown.

Note the 10 mil all-around profile specification for rectangular cutout as shown. Inner corners of cutout may have an optional radius added of 30 mils. Panels of thickness up to 0.130 in (3.2mm) may be accommodated with the Bezel/Lens Mounting Kit.

2.0 What's in the Box

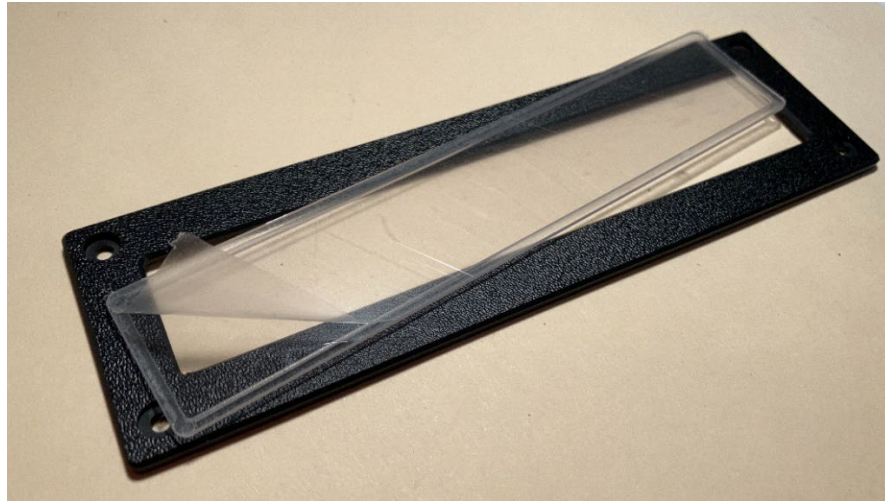


The kit includes:

- 1) Black ABS plastic bezel and clear acrylic plastic lens.
- 2) Mounting hardware consisting of:
 - a) Qty (4) pieces #4-40 x ¼ in. hex standoffs
 - b) Qty (4) pieces #4-40 x ¾ in. pan head machine screws
 - c) Qty (4) pieces #4 flat washer
 - d) Qty (4) pieces #4 split lock washer
 - e) Qty (4) pieces # 4-40 hex nut

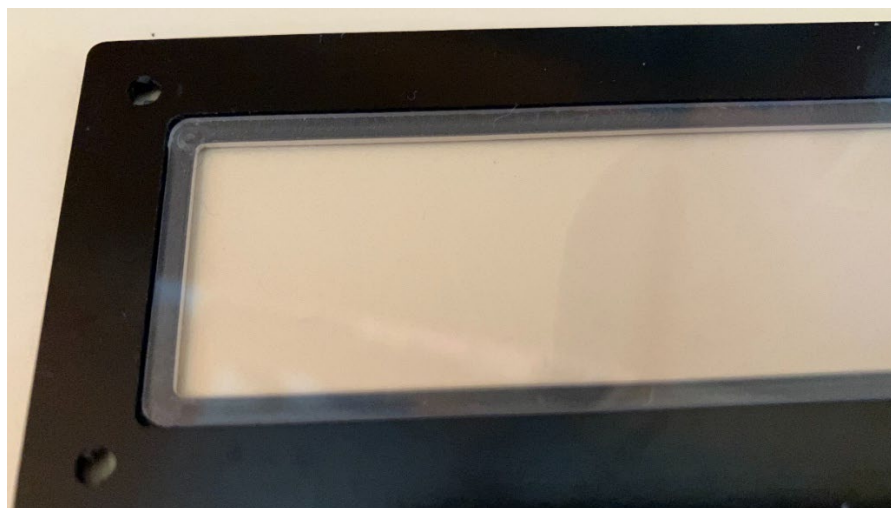
3.0 Assembly

Step 1. First unwrap the bezel/lens and remove any protective paper or plastic film.



The front of the bezel has a textured surface, with counterbores designed to accommodate the #4-40 pan head machine screws. The back surface is smooth with no texturing and no counterboring for the holes. The lens is designed to drop into the bezel from the back side, with the milled lens edges fitting into the stepped edge of the bezel cutout area. See below on how the lens is designed to fit inside of the bezel. Note there may be some small plastic shavings left over from the machining process. These may be easily removed by gently running a fingernail along the machined edges.

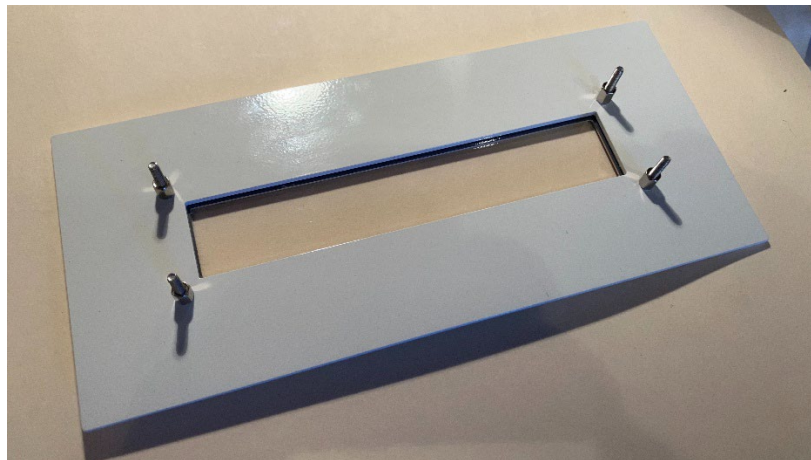
The bezel/lens is held in place with the four mounting screws; these same screws are also used to mount the DSP004 unit onto the panel. When correctly mounted, the bezel/lens will fit flush on the panel surface. Note a demonstration metal panel fabricated in accordance with the drawing is used here for illustrative purposes.



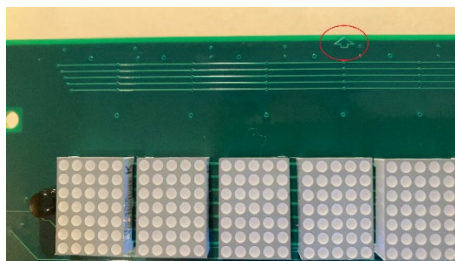
Step 2. With your panel held in place, fit the lens into the bezel, and place the bezel/lens onto the top surface of the panel and align it with the four panel mounting holes. Next, pass the four #4-40 machine screws through the bezel and panel holes as shown below:



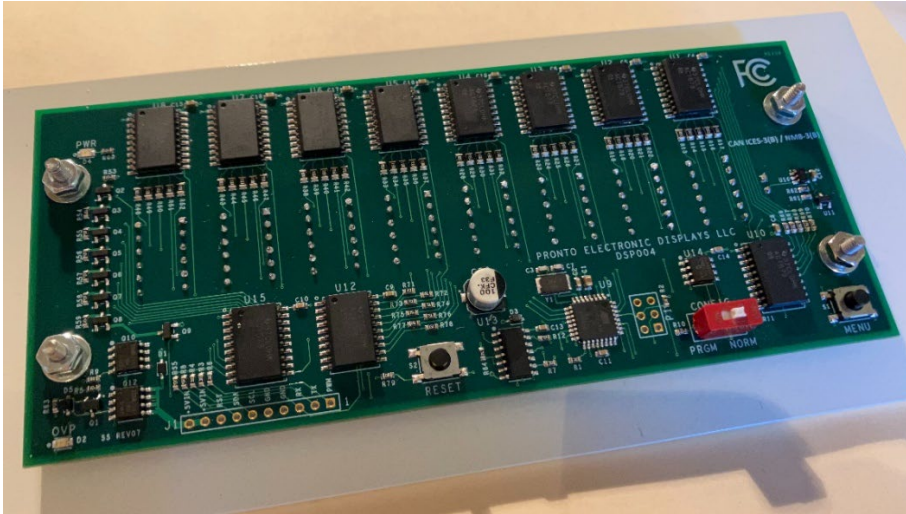
Step 3. On the back side, thread the #4-40 standoffs onto the screws until they securely fasten the bezel/lens assembly in place. Finger-tight is OK. Do not overtighten as this may damage the bezel. Next, flip the panel over:



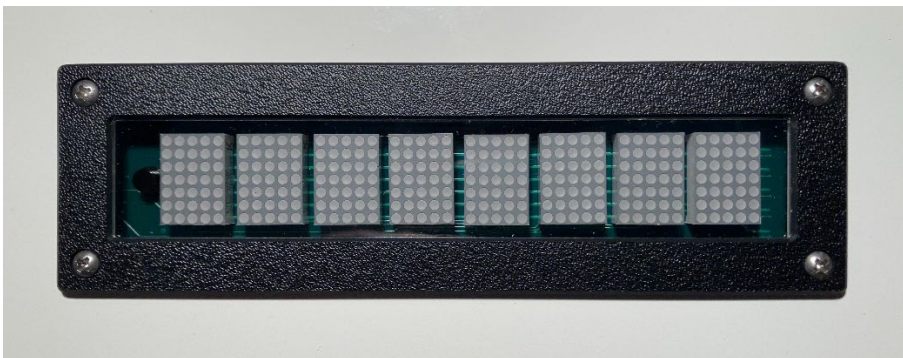
Before proceeding further, note the orientation “up arrow” that has been etched onto the display side of the DSP004, to help ensure correct orientation when placing the DSP004 unit onto the panel:



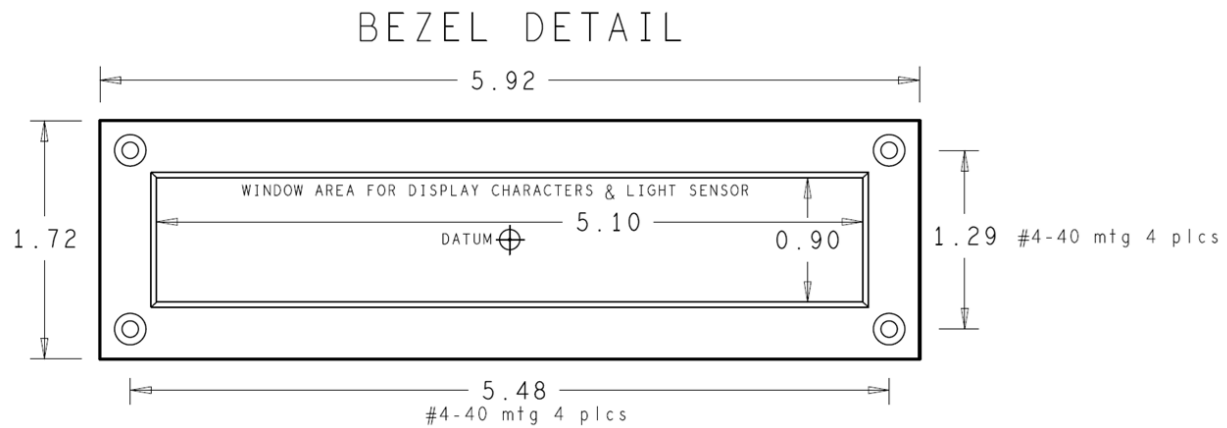
Step 4, Final step. Align the DSP004 mounting holes with the screws, and with the back side facing towards you, slide the DSP004 unit down onto the standoffs. Then, place the flat washers, followed by the the split lock washers. Finally, fasten the unit using the #4-40 hex nuts. In environments where vibration may be a concern, apply some thread locker. Do not over-tighten.



Below is the front view of the finished unit:



4.0 Bezel Dimensions Drawing



Bezel material: Black ABS plastic, thickness 0.118 in.