



Product Change Notification

PCN No: 2013-10-22-01
Report Date: October 22, 2013
Subject: New 20x2 VFD Display

List of New / Changed Products:

All the following alphanumeric displays:

MOP-AV202C-BNNN MOS-AV202 MOI-AV202 MOU-AV202 VK202-25 VK202-25-USB BVK202A BVC2021
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Including all applicable options and across all PCB Revisions

Reason for Change:

Our vacuum fluorescent display manufacturer has updated the 20x2 VFD displays with a slightly different piece of glass using chip on glass technology to remove a number of components from the screen board.

Product Change:

All outside dimensions of the vacuum fluorescent display and the active area remain exactly the same. However, the actual glass has grown 0.75mm in the X dimension, shrunk 1.25mm in the Y dimension. Overall height of the new display is 1.2mm shorter. Two large circular electrolytic capacitors and one inductor have been removed from the left side of the board.

There are no functional changes.

Important note about 20x2 VFD filters: The current VFD filters will no longer be compatible in size and new ones will be released. Part numbers to be determined at a later date.

Schedule of Change:

August 8, 2015

Technical drawing of a rectangular panel. The main drawing shows a top view with dimensions: 116.00 (total width), 108.00 (inner width), 70.80 (width of the central rectangular area), 37.00 (total height), 29.00 (height of the central rectangular area), and 10.80 (height of the top section). The central area contains a grid of 24 rectangular elements arranged in 4 rows and 6 columns. The bottom section contains a row of 24 small circular elements. The right side features two large circular elements and two smaller circular elements. A side view on the right shows the panel's profile with dimensions: 11.60 ± 1.00 (total height), 10.00 ± 1.00 (height of the main body), 25.25 (width of the main body), 4.00 (width of the top section), and 3.20 (width of the bottom section).

Technical drawing of a rectangular building footprint. The overall dimensions are 116.00 (width) and 37.00 (depth). The drawing shows internal walls, columns, and a central area with a grid of small rectangles. Dimensions are provided in blue and red. A detail view on the right shows a cross-section of a wall with dimensions 10.40±1.00 and 8.80±1.00.

The image shows two green printed circuit boards (PCBs) for display modules, labeled 'Old Display' and 'New Display'. The 'Old Display' (top) is model PW-459-104, TCK1R 94Y-0, and features a large black display area with a grid of small, dark, rectangular elements. It has a circular component (T1) and a small purple component (C19) on the right side. The 'New Display' (bottom) is model PW-1515-102, MADE IN JAPAN, and features a large black display area with a grid of small, light-colored, rectangular elements. It has a circular component (T1) and a small purple component (C19) on the right side. Both displays are connected to a green PCB with various components and connectors.

Documentation Revision

Revision	Changes	Date	Author
1.3	Updated Schedule of Change	August 7, 2015	R Malinis
1.2	Updated Schedule of Change	March 31, 2015	R Malinis
1.1	Updated Schedule of Change	July 23, 2014	R Malinis
1.0	Initial Release	October 22, 2013	R Malinis

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Reference Documents/Attachments:

Location: <http://www.matrixorbital.ca/manuals/>

Approvals:

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