

bds Brentwood Display Services Inc.

Row Driver Board

The row driver board interfaces the 3202 sign driver PWB to the 5 X 7 disk modules that make up the sign. The 3202 sign driver uses only low voltage, low current logic levels. The row driver board decodes and converts these logic levels to the 3 amp, 30 to 40 volt drive level required for the electromagnetic coils on the display modules. The row driver board incorporates failsafe circuitry to prevent coil burn-out in case of 3202 failure. On board sensing circuitry allows the 3202 driver to determine if a coil on a display module is open, shorted, or normal.

SPECIFICATIONS

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| <i>Operating Temperature Range</i> | -40 to +74 C |
| <i>Operating Humidity range</i> | 5 to 95% non-condensing. |
| <i>Maximum Dot (Shutter) Drive input Voltage.</i> | 40 VDC max, 35 V typical 30V minimum |
| <i>Row Drive Surge Suppression:</i> | Yes. Metal Oxide Varistors on every drive line. |
| <i>NEMA Tested for Surge & Power Interruption (with Model 1 power supply)</i> | Yes - Passed |
| <i>NEMA Tested for Mechanical Shock & Vibration</i> | Yes - Passed |
| <i>Vcc (logic drive) Voltage Requirement</i> | 4.50 VDC min, 5.50 VDC max, 5.00 volts typical. |
| <i>Re-Calibration Period</i> | No calibration required. |
| <i>Disk Drive Current:</i> | Current limited to 3.0A +/- 0.25A |
| <i>Disk Drive Fail Safe:</i> | Drive time limited to 1.2 Ms Typical. |
| <i>Row Drive Capability:</i> | 2 independent rows of 7 Disks. |
| <i>Conformal Coating</i> | Complies with MIL-1-46058C Type SR |
| <i>Board Material</i> | .062 Epoxy Glass. |
| <i>PWB Material Rating</i> | G3 CSA / UL approved. |
| <i>Copper</i> | 1 Oz Plated to 2 Oz |
| <i>Board Size:</i> | Approximately 7 3/4" L by 6 3/4" W. |
| <i>Connectors</i> | 1 Ribbon cable for Drive Control (3202X driver), 1 plug-in terminal block for disk Drive Voltage 2 ribbon cable connectors, one for each Row Drive. |

Specifications subject to change without notice.