

bds Brentwood Display Services Inc.

Column Driver Board

The Column 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 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 Column board incorporates fail-safe 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

| | |
|---|--|
| Operating Temperature Range | -40 to +74 C |
| Operating Humidity range | 5 to 95% non-condensing. |
| Maximum Dot (Shutter) Drive input Voltage. | 40 VDC max, 35 V typical 30V minimum |
| Row Drive Surge Suppression: | Yes. Metal Oxide Varistors on every drive line. |
| NEMA Tested for Surge & Power Interruption (with Model 1 power supply) | Yes - Passed |
| NEMA Tested for Mechanical Shock & Vibration | Yes - Passed |
| Vcc (logic drive) Voltage Requirement | 4.50 VDC min, 5.50 VDC max, 5.00 volts typical. |
| Re-Calibration Period | No calibration required. |
| Disk Drive Current: | Current limited to 3.0A +/- 0.25A |
| Disk Drive Fail Safe: | Drive time limited to 1.2 Ms Typical. |
| Column Drive Capability: | 5 independent columns of 5 Disks. |
| Conformal Coating | Complies with MIL-1-46058C Type SR |
| Board Material | .062 Epoxy Glass. |
| PWB Material Rating | G3 CSA / UL approved. |
| Copper | 1 Oz Plated to 2 Oz |
| Board Size: | Approximately 16 3/4" L by 3 1/4" " W. |
| Connectors | 1 Ribbon cable for Drive Control (3202X driver), 1 plug-in terminal block for disk Drive Voltage 5 ribbon cable connectors, drives five modules (total). |

Specifications subject to change without notice.