

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.