

BC SERIES

TECHNICAL SPECIFICATIONS

Dotronix BC Series offers an extensive range of OEM open frame displays designed and manufactured by Dotronix specifically for high brightness and resolution. Available in 5" x 9", 7", 12" and 14" sizes in both kit and frame versions.

VIDEO

- Standard TTL, white positive
- Pulse width duty Cycle 50% min.
- Rise Time: 10 nsec. max. leading edge (10-90%)
- Fall Time: 10 nsec. max. trailing edge (90-10%)
- Frequency up to 25 MHz data rate

HORIZONTAL

- TTL sync positive
- 15-25 kHz one frequency factory preset

VERTICAL

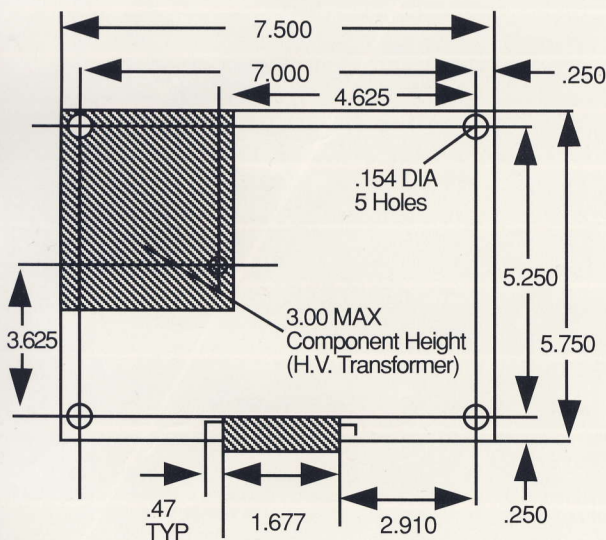
- Standard TTL sync negative or positive
- Vertical Sweep Rate: 47 to 82 Hz \pm 5% factory preset
- Pulse Width: 75 μ sec. to \leq vertical blanking time minus sync delay
- Rise/Fall Times: 100 nsec. max.
- Input Impedance 3.3 kohm min.
- Blanking Time: 850 μ sec. min.

POWER

- Voltage: 12 VDC \pm 0.2 or 15 VDC \pm 0.2
- Current: 1.25 ADC nominal (1.60 ADC max.)

Printed Circuit Board Configuration "A"

- One board design for cost efficiency
- Direct drive horizontal circuit
- Optional oscillator horizontal drive circuit



CONTROLS

- Horizontal Linearity
- Vertical Linearity
- Brightness
- Height
- Horizontal Hold (optional)
- Vertical Hold
- Horizontal Video Center
- Width
- Focus

ENVIRONMENTAL

- Operating Temperature: 5°C to 55°C (41°F to 131°F) ambient
- Storage Temperature: -40°C to 85°C (-40°F to 185°F) ambient
- Humidity: 5% to 90% R.H. (non-condensing)
- Altitude: Operating up to 10,000 ft (3.0 km)
Storage up to 30,000 ft (9.2 km)

AGENCY APPROVALS

- Implosion protected units are listed by U.L. as recognized components that satisfy UL-478 Standard for Electronic Data Processing Units and Systems. File Number E59318
- Complies with D.H.H.S. and JEDEC requirement on X-Radiation when operated within specified input voltage limits.
- Units are certified by Canadian Standard Association under Standard C 22.2 Number 154 Reference File Number 39422

MATING CONNECTOR REQUIRED

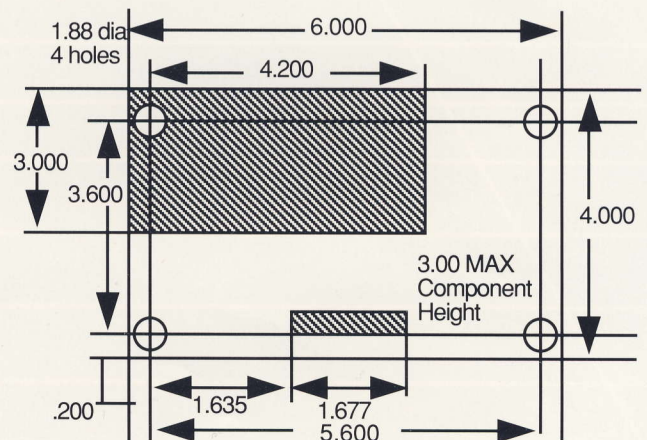
- Signal and Power: 10 contact board edge connector (Viking 2KH10/1AB5 or Cinch 250-10-30-170)
- Optional connector: .100 centers or .156 centers connector

BC MODEL SERIES Display Characteristics

	BC590	BC170	BC190	BC200	BC300
CRT	5" x 9"	7"	9"	12"	14"
Radius	30"	Flat	27"	25"	30"
Deflection	90°	85°	85°	90°	90°
High Voltage	13 kV	13 kV	13 kV	13 kV	14.5 kV
Usable Screen	7.5" x 3.0"	5.2" x 4"	6.7" x 5"	9" x 6.7"	9.4" x 7"
Resolution Center	800	725	800	900	1000
Corner	650	575	650	750	900
Weight Frame	6.7 lbs	5.5 lbs	6.6 lbs	11.6 lbs	13.3 lbs
Weight Kit	5.4 lbs	4.2 lbs	5.3 lbs	9.9 lbs	11.3 lbs

Printed Circuit Board Configuration "B"

- Small size main board for minimum envelope applications
- Direct drive horizontal circuit



Specifications are subject to change due to technological progress



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