

3-MHz X-Y Display Module



LBO-51MA

- *Designed for OEM and Custom Applications*
- *Standard Half-Rack Configuration*
- *3-MHz X and Y Bandwidth*
- *4-MHz Z-Axis Bandwidth*
- *P31 or Optional Phosphors*
- *Removable Imprintable External Graticule*
- *Custom Internal Graticules Available*
- *Stereo Phase Monitoring*

KEY SPECIFICATIONS

CRT

Display Area

8 x 10 cm

Spot Size

0.26 mm at 0.5 μ A beam current

Brightness

25 fL measured with 200 line raster and 60 Hz refresh rate

Phosphor

P31 (other phosphors optional)

Accelerating Voltages

7 kV/2 kV

X-Y DEFLECTION

Bandwidth

dc to 3 MHz (-3 dB at 5 div deflection)

Coupling

dc or ac (internal switch)

Phase Shift

< 3° at 1 MHz

Sensitivity

100 mV/div, adjustable \pm 50%

Polarity

+ or - (internally switchable)

Linearity

Within 5%

Input Impedance

1 M Ω , < 50 pF (provision is made for internal terminating resistor)

Maximum Input Voltage

100 V (dc plus ac peak)

Rise Time

< 120 ns

Z-AXIS

Bandwidth

dc to 4 MHz

Blanking Threshold/Polarity

-1 V (when INTEN knob is positioned at mid-range)/Negative

Input Impedance

1 M Ω , < 50 pF

Maximum Input Voltage

100 V (dc plus ac peak)

Rise Time

< 90 ns

POWER REQUIREMENTS

100, 120, 220, 240 V ac \pm 10%

50/60 Hz, 25 W

PHYSICAL

Size (W x H x D)

8 $\frac{1}{2}$ x 5 $\frac{1}{4}$ x 16 $\frac{3}{4}$ in.

215 x 132 x 425 mm

Weight

13 $\frac{1}{4}$ lbs., 6 kg

OPTIONAL ACCESSORY

Rackmount Adapter (LR-2400VI)

4-MHz Recurrent Sweep Oscilloscope

- *Easy to Use*
- *Small Footprint (5" Wide)*
- *4-MHz Bandwidth*
- *20 mV/div Maximum Sensitivity*
- *X-Y Operation*
- *Good Display for Sweep Alignment*
- *Versatile Instrumentation for Production Work*



LBO-310A

KEY SPECIFICATIONS

VERTICAL DEFLECTION

Bandwidth (-3 dB, 4 div)

dc: dc to 4 MHz

ac: 2 Hz to 4 MHz

Input Sensitivity Control

x100, x10, x1 and variable (20 mV max)

Input Impedance

1 M Ω , 40 pF

Direct CRT Drive

10 V p-p sensitivity up to 100 MHz

EXTERNAL HORIZONTAL DEFLECTION

Bandwidth (-3 dB, 10 div)

dc to 250 kHz

Input Sensitivity

300 mV/div

INPUT HORIZONTAL DEFLECTION

Type Sweep

Recurrent

X-Y DEFLECTION

Sweep Rates

10 Hz to 100 kHz, four ranges

Z-AXIS (INTENSITY) MODULATION

Sensitivity

20 V p-p

CRT Display

Accelerating Potential/Phosphor

1200 V/P1

POWER REQUIREMENTS

100, 120, 220, 240 V ac \pm 10%

50/60 Hz, approx. 12 VA

PHYSICAL

Size (W x H x D)

5 x 7 $\frac{1}{2}$ x 12 in.

125 x 180 x 300 mm

Weight

8.8 lbs., 4 kg

SUPPLIED ACCESSORY

1 Banana Plug to Alligator Clip