

32C

L-4011

M I C R O P I X

5 Inch Round  
High Definition CRT  
(Tentative)

5,000 TV LINE RESOLUTION  
FLAT FACE PLATE  
METALLIZED HIGHLY ACTINIC PHOSPHOR  
SCREEN  
ACTIVE SCREEN AREA  $4\frac{1}{4}$ " DIAMETER  
SCREEN VOLTAGE UP TO 30,000 VOLTS

Focusing Method                   Magnetic  
Deflection Method                Magnetic  
Deflection Angle                   40°

\*This tube may be obtained with other standard phosphors on special order.

APPLICATIONS

This tube uses "micro-selected" P-11 phosphor, and is especially designed for photographic applications such as side looking radar, transparency re-production, and high definition TV recording. With other specialized phosphors the same generic tube may be used as a very high definition flying spot scanner, monitor, and radar type CRT.

MECHANICAL DATA

Overall Length                    17  $\frac{3}{4}$   $\pm$   $\frac{1}{8}$   
Bulb Diameter                      $5\frac{1}{4}$   $\pm$   $\frac{1}{16}$   
Minimum Useful Screen Diameter  $4\frac{1}{4}$ "  
Mounting Position                 Any  
Base - small shell duodecal  
(JEDEC No. B7-51)

MAXIMUM RATINGS

Screen (anode) voltage           30,000 DC  
Grid #2 voltage                   700 DC  
Grid #1 voltage:  
  Negative bias value            200 DC  
  Positive bias value            -1 DC  
  Positive peak value            0 volts  
Peak heater - cathode voltages:  
  Heater negative with respect  
  to cathode                     150 DC  
  Heater positive with respect  
  to cathode                     150 DC

DATA

GENERAL

Heater voltage                    6.3 volts  
Heater current                    0.6 amperes  
Direct Interelectrode Capacitances:  
  Grid #1 to all other elec-  
  trodes                           8 uuf  
  Cathode to all other elec-  
  trodes                           5 uuf

\*Phosphor Screen:

Aluminized, controlled particle  
  size                             P-11  
Fluorescence                     blue  
Phosphorescence                 blue  
Decay Rate                       fast

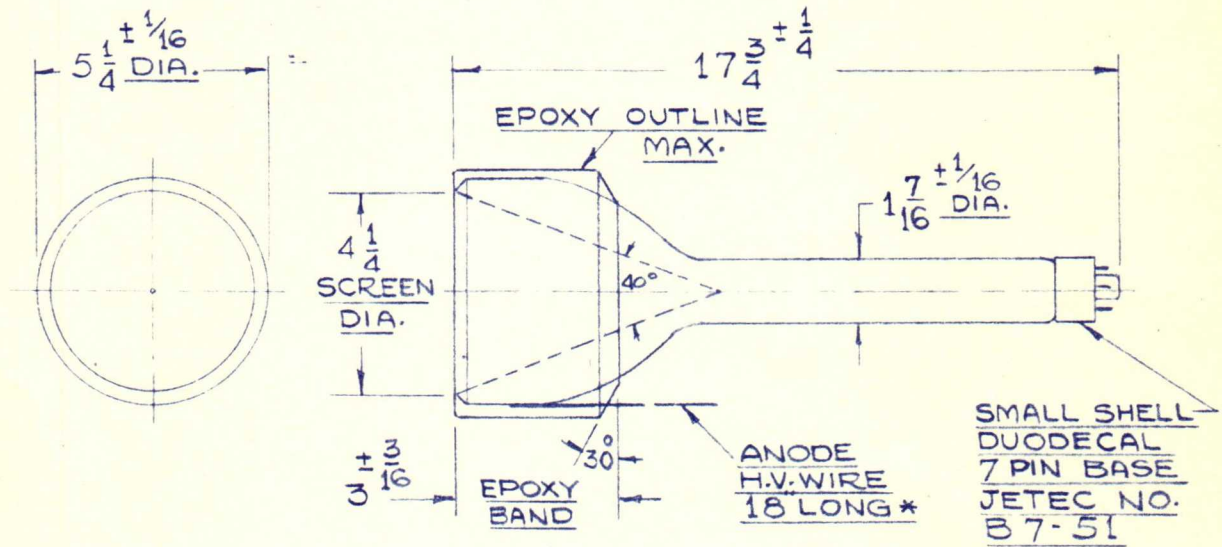
TYPICAL OPERATION

Screen (anode) voltage           27,000 DC  
Grid #2 voltage                   500 DC  
Grid #1 voltage for visual  
  extinction of focused spot   -110 DC  
Circuit values:  
  Grid #1 circuit resist-  
  ance                             1.5 megs. max.

L-4011  
"MICROPIX"  
5 INCH ROUND

HIGH DEFINITION CRT

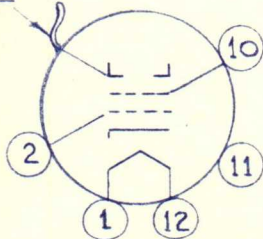
DIMENSIONAL OUTLINE



\* OTHER LENGTHS ON REQUEST

BASING DIAGRAM

PHOSPHOR  
SCREEN  
ANODE



BOTTOM VIEW

PIN 1 HEATER  
PIN 2 GRID No.1  
PIN 10 GRID No.2

PIN 11 CATHODE  
PIN 12 HEATER  
H.V. WIRE - ANODE