CATHODE RAY

THE 27LP4 IS A DIRECT-VIEW PICTURE TUBE DESIGNED FOR USE IN TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

GREY FILTER FACEPLATE
EXTERNAL CONDUCTIVE COATING
MAGNETIC FOCUS AND DEFORMATION
RECTANGULAR GLASS CONSTRUCTION

ALUMINIZED SCREEN
UNIPOTENTIAL CATHODE
EXTERNAL SINGLE FIELD ION TRAP
18 15/32" X 23 17/32" RASTER SIZE

ELECTRICAL DATA

FOCUSBING METHOD MAGNETIC
DEFLECTING METHOD MAGNETIC
DEFLECTION ANGLE (APPROX.):
  HORIZONTAL 85 DEGREES
  DIAGONAL 90 DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.):
  CATHODE TO ALL OTHER ELECTRODES 5 μf
  GRID #1 TO ALL OTHER ELECTRODES 6 μf
  MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE 400 μf
  MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE 250 μf

OPTICAL DATA

PHOSPHOR NUMBER NO. 4
FLUORESCENT COLOR WHITE
PHOSPHORESCENT COLOR WHITE
PERSISTENCE MEDIUM

MECHANICAL DATA

OVERALL LENGTH 24 23/64 ± 3/8 INCHES
GREATEST DIMENSIONS OF BULB:
  DIAGONAL 26 13/16 ± 1/4 INCHES
  WIDTH 25 9/32 ± 1/4 INCHES
  HEIGHT 20 7/32 ± 1/4 INCHES
MINIMUM USEFUL SCREEN DIMENSIONS:
  WIDTH 23 17/32 INCHES
  HEIGHT 18 15/32 INCHES
BULB CONTACT RECESSED SMALL CAVITY CAP J1-2L
BASE SMALL SHELL DUODECIAL 5 PIN B5-57
BASING 12N
BULB CONTACT ALIGNMENT
  J1-2L CONTACT ALIGNS WITH PIN POSITION #6 ± 30 DEGREES

PIN CONNECTIONS

PIN 1 - HEATER
PIN 2 - GRID NO. 1
PIN 10 - GRID NO. 2
PIN 11 - CATHODE
PIN 12 - HEATER
ANODE CAP:
GRID NO. 3

CONTINUED ON FOLLOWING PAGE
CATHODE RAY

THE 27LP4 IS A DIRECT-VIEW PICTURE TUBE DESIGNED FOR USE IN TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

- GREY FILTER FACEPLATE
- EXTERNAL CONDUCTIVE COATING
- MAGNETIC FOCUS AND DEFLECTION
- RECTANGULAR GLASS CONSTRUCTION

ALUMINIZED SCREEN
- UNIPOTENTIAL CATHODE
- EXTERNAL SINGLE FIELD ION TRAP
- 18 15/32" X 23 17/32" RASTER SIZE

ELECTRICAL DATA

- FOCUSING METHOD: MAGNETIC
- DEFLECTING METHOD: MAGNETIC

DEFLECTION ANGLE (APPROX.):
- HORIZONTAL: 85 DEGREES
- DIAGONAL: 90 DEGREES

DIRECT INTERELECTRODE CAPACITANCES (APPROX.):
- CATHODE TO ALL OTHER ELECTRODES: 5 µf
- GRID #1 TO ALL OTHER ELECTRODES: 6 µf
- MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE: 400 µf
- MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE: 250 µf

OPTICAL DATA

- PHOSPHOR NUMBER: NO. 4
- FLUORESCENT COLOR: WHITE
- PHOSPHORESCENT COLOR: WHITE
- PERSISTENCE: MEDIUM

MECHANICAL DATA

- OVERALL LENGTH: 24 23/64 ± 3/8 INCHES
- GREATEST DIMENSIONS OF BULB:
  - DIAGONAL: 26 13/16 ± 1/4 INCHES
  - WIDTH: 25 9/32 ± 1/4 INCHES
  - HEIGHT: 20 7/32 ± 1/4 INCHES

MINIMUM USEFUL SCREEN DIMENSIONS:
- WIDTH: 23 17/32 INCHES
- HEIGHT: 18 15/32 INCHES

BULB CONTACT:
- RECESSED SMALL CAVITY CAP: J1-21

BASE:
- SMALL SHELL DUODECIAL 5 PIN: B5-57

BASING:
- 12N

BULB CONTACT ALIGNMENT:
- J1-21 CONTACT ALIGNS WITH PIN POSITION #6 ± 30 DEGREES

PIN CONNECTIONS

- PIN 1 - HEATER
- PIN 2 - GRID NO. 1
- PIN 10 - GRID NO. 2
- PIN 11 - CATHODE

PIN 12 - HEATER
- ANODE CAP:
  - GRID NO. 3

CONTINUED ON FOLLOWING PAGE