

ELECTRONIC TUBE REFERENCE

4QP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Rectangular flat-face oscilloscope CRT with electrostatic focusing and deflection, designed for compact transistorized equipment. A linear post-accelerator and geometry-adjust electrode improve brightness and displayed-trace geometry.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray
No fixed ratings recorded. Cathode-ray electron-gun section; CRT-specific ratings are retained in TUBE_SECTION_PARAMETER because fixed plate/screen fields are not semantically equivalent.

The ETC 4QP1 is a rectangular flat-face electrostatic-focus and deflection cathode-ray tube designed for compact transistorized equipment, with a linear post-accelerator and geometry-adjust electrode.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Electronic Tube Corp

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 ELECTRONIC TUBE CORP

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current nominal	600 mA	—
Maximum post-accelerator voltage	3400 V	—
Maximum accelerator voltage	650 V	—
Maximum focusing voltage	100 V	—
Maximum accelerator-to-deflection-electrode voltage	200 V	—
Maximum negative grid-1 bias magnitude	200 V	—
Maximum positive grid-1 bias	0 V	—
Maximum heater-to-cathode voltage magnitude	180 V	—
Typical post-accelerator voltage	3000 V	—
Typical accelerator voltage	600 V	—
Typical focusing voltage	40–160 V	—
Typical grid-1 voltage	-50--30 V	—
Typical post-accelerator current	40 uA	—
Deflection factor D1-D2 minimum	25 V/in	—
Deflection factor D1-D2 maximum	30 V/in	—
Deflection factor D3-D4 minimum	12.5 V/in	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection factor D3-D4 maximum	15.5 V/in	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflecting method	Electrostatic	—
Electron gun / beam count	1	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor options	P1,P2,P7,P11	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes	5.3 pF	—
Grid 1 to all other electrodes	6.8 pF	—

TUBE TINKER

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