

ELECTRONIC TUBE REFERENCE

3BYP31

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Three-inch flat-face oscilloscope CRT with electrostatic focusing, double electrostatic deflection, and post-deflection acceleration. Designed for dual-trace oscilloscope service, it combines precise beam control with increased post-accelerated screen brightness.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	14
NOMINAL HEATER	6.3 V / 95 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM CATHODE CURRENT	0.2 mA
MAXIMUM HEATER-CATHODE VOLTAGE	100 V
CRT ratings retained primarily as parameters; direct interelectrode capacitances are published.	

Flat-face cathode-ray tube with electrostatic focusing, double electrostatic deflection and post-deflection acceleration for dual-trace oscilloscope service.

SOURCE OPERATING CONDITIONS

1953 Amperex

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

1953 AMPEREX

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Post accelerator voltage maximum	2500 V	—
Post accelerator voltage minimum	1200 V	—
Isolation shield voltage	2200 V	—
Accelerator voltage	300 V	—
Peak voltage grid 4 to deflection plate	500 V	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker