



ELECTRONIC TUBE REFERENCE

903HB

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Special-purpose cathode-ray display tube in the 903 family, intended for radar, monitor, or related visual-display service with phosphor characteristics designated by the HB suffix.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B12A	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	15000 V
Promoted fields were populated only where the Ferranti sheet maps cleanly to the locked schema; additional ratings and operating values are retained in TUBE_SECTION_PARAMETER.	

Nine-inch radar display CRT with metal-backed screen, magnetic deflection and low-voltage electrostatic focus.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Ferranti

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

1963 FERRANTI

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
First-anode voltage maximum	500 V	—
First-anode voltage minimum	200 V	—
Second-and-fourth-anode voltage minimum	8000 V	—
Third-anode voltage minimum	-500 V	—
Third-anode voltage maximum	500 V	—
First-anode voltage	300 V	—
Second-and-fourth-anode voltage	12000 V	—
Third-anode focus voltage minimum	-300 V	—
Third-anode focus voltage maximum	300 V	—
Visual cutoff grid voltage minimum	-70 V	—
Visual cutoff grid voltage maximum	-30 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-to-all capacitance maximum	8 pF	—
Grid-to-all capacitance maximum	8 pF	—
Anode-to-external-coating capacitance	750 pF	Approximate

TUBE TINKER

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and their source documents.

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