



ELECTRONIC TUBE REFERENCE

T983Z

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Sixteen-inch high-resolution radar CRT with magnetic deflection, electrostatic focusing, aluminized orange very-long-persistence screen, and approximately 15 kV nominal EHT for sustained radar presentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B12A	BASE PINS	12
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	18000 V
<i>Maximum final-anode/PDA voltage mapped to MaxPlateVoltage.</i>	

Sixteen-inch high-resolution radar cathode-ray tube with magnetic deflection, electrostatic focus, aluminized very-long-persistence orange screen, and 15 kV nominal EHT. Z / EVS.009 orange, very-long persistence

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 English Electric Valve

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

1971 ENGLISH ELECTRIC VALVE

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Minimum anode 2/anode 4 voltage	8 kV	—
Maximum anode 2/anode 4 voltage	18 kV	—
Maximum positive anode 3 voltage	700 V	—
Maximum negative anode 3 voltage	500 V	—
Maximum anode 1 voltage	500 V	—
Maximum heater-cathode voltage	150 V	—
Maximum mean cathode current	150 uA	—
Typical anode 2/anode 4 voltage	15 kV	—
Deflection angle	50 deg	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen characteristic	Z / EVS.009 orange, very-long persistence	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to all other electrodes capacitance	12 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes capacitance	12 pF	—

TUBE TINKER

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