



ELECTRONIC TUBE REFERENCE

21ECP7

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Twenty-one-inch P7 cathode-ray display tube using magnetic focusing and magnetic deflection at comparatively low anode voltage. Its persistent-screen designation and approximately 9 kV maximum distinguish it from conventional P4 television picture tubes.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12N	BASE PINS	12
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	9000 V
MAXIMUM SCREEN VOLTAGE	500 V
<i>Low-anode-voltage magnetically focused and deflected cathode-ray tube.</i>	

Low-anode-voltage magnetically focused and deflected cathode-ray tube.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1945 Continental Electronics

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

1945 CONTINENTAL ELECTRONICS

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing Method	Magnetic	—
Deflecting Method	Magnetic	—
Horizontal Deflection Angle	65 deg	Approximate
Vertical Deflection Angle	50 deg	Approximate
Phosphor	P7	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage Minimum	5000— V	—
Anode Voltage Typical	5000 V	Grid drive service
Grid 2 Voltage Typical	300 V	Grid drive service
Grid 1 Voltage	-72--28 V	Grid drive service

TUBE TINKER

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and their source documents.

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