

ELECTRONIC TUBE REFERENCE

2P22

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CAMERAPICKUP

Image-orthicon television camera tube using magnetic focusing and deflection, a semitransparent photocathode, and electron-multiplier output. Designed for sensitive television image pickup rather than simple point light detection.

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 CameraPickup	
MAXIMUM PLATE VOLTAGE	1650 V
Published ratings and characteristics promoted where clearly stated; remaining published values retained as section parameters.	

Image orthicon television camera tube using magnetic focusing and magnetic deflection, with a semitransparent photocathode and electron-multiplier output.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · CameraPickup

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal value
Heater or filament current	600 mA	Published nominal value
Useful image diagonal	1.03125 in	1:1 aspect ratio
Focusing method	Magnetic	Published
Deflection method	Magnetic	Published

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Photocathode maximum voltage	400 V	Absolute maximum
Anode-supply voltage	1650 V	Published maximum
Voltage per multiplier stage	350 V	Published maximum