



ELECTRONIC TUBE REFERENCE

8414

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Subminiature frame-grid sharp-cutoff pentode for VHF RF/IF amplification and mixer service at unusually low plate voltage. Severe-environment construction suits airborne, military, and demanding professional electronics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	26.5 V / 45 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	50000 Ω
TRANSCONDUCTANCE	0.005 S
MAXIMUM PLATE VOLTAGE	55 V
MAXIMUM SCREEN VOLTAGE	55 V
MAXIMUM CATHODE CURRENT	10 mA
<i>Published maximum ratings and characteristics promoted semantically from the approved source.</i>	

Subminiature frame-grid sharp-cutoff pentode for VHF RF/IF amplifier and mixer service at low plate voltage, designed for severe environmental conditions.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	50000 ohm	—
Transconductance	5000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	55 V	—
Maximum Screen Voltage	55 V	—
Maximum Cathode Current	10 mA	—
Plate Voltage	26.5 V	—
Screen Voltage	26.5 V	—
Plate Current	1.5 mA	—