

ELECTRONIC TUBE REFERENCE

8GX7

Voltage Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
PENTODE-TRIODE

Medium-mu triode plus frame-grid pentode for VHF television-tuner oscillator and mixer service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	7.7 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	275 V
Triode section; published ratings and characteristics promoted where unambiguous.	
SECTION2 Pentode	
TRANSCONDUCTANCE	0.011 S
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM SCREEN DISSIPATION	0.45 W
Pentode section; published ratings and characteristics promoted where unambiguous.	

Medium-mu triode plus frame-grid pentode for VHF television tuner oscillator-mixer service.

SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	7.7 V	Rated heater condition
Heater current	300 mA	Rated heater condition
Plate Voltage	125 V	Plate Voltage , ..120 125 Volts
Grid I Voltage	1 V	Grid I Voltage , ...- 1.0 Volts
9-Pin Base Plato Resistance	200000 ohm	9-Pin Base Plato Resistance I •..- 200000 Ohms
Plate Current	8 mA	Plate Current , •. 8.5 8.0 Ma.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage . . 4.2 5.6 6.3	7.7 V	Voltage . . 4.2 5.6 6.3 7.7 Volts Plato Voltage 275 275 max. Volts
Cu,rent , , 0.60 0.45 0.40	300 mA	Cu,rent , , 0.60 0.45 0.40 0.30 Ampere Grid 2 Supply Voltage. . - 275 max. Volts
Grid to Plate	1.2 pF	Grid to Plate •..... 1.2 pf Grid 2 Dissipation - 0.45 max. Watts
Input	2.3 pF	Input..... •..... 2.3 pf Positive Grid I Voltage. . .0 0 max. Volts
Output	1.9 pF	Output..... •..... 1.9 pf Negative Grid 1 Voltage . 40 40 max. Volts
Grid 1 to Plato	0.005 pF	Grid 1 to Plato •..... 0.005 pf Grid 1 Circuit Resistance
Grid 1 to Grid 2	1.6 pF	Grid 1 to Grid 2 •..... 1.6 pf Heater-Cathode Voltage:

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 2 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	7.7 V	Rated heater condition
Heater current	300 mA	Rated heater condition