

ELECTRONIC TUBE REFERENCE

9F8P

Voltage Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
PENTODE-TRIODE

Triode-pentode for heterodyne oscillator, frequency-converter, and television pulse-amplifier service.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	250 V
Full electrical-data audit completed for this tube.	

SECTION2 Pentode	
PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.0062 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	170 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.7 W
Pentode section values from English specification table.	

The 9F8P is a triode-pentode for heterodyne oscillator, frequency-converter, and television pulse-amplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Russian

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

195X RUSSIAN

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	8.1–9.9 V	Series-heater television service

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	280–320 mA	Published nominal tolerance
Triode anode voltage	100 V	Published operating point
Triode grid voltage	-2 V	Published operating point
Triode anode current	8–18 mA	Published tolerance
Triode transconductance	3.5–6.5 mA/V	Published tolerance
Triode amplification factor	20	Published value
Pentode anode voltage	170 V	Published operating point
Pentode screen voltage	170 V	Published operating point
Pentode grid voltage	-2 V	Published operating point
Pentode anode current	10.5 mA	Published value
Pentode screen current	4.5 mA	Published value
Pentode internal resistance	0.4 MΩ	Published value
Pentode equivalent noise resistance	1.5 kΩ	Published value
Pentode transconductance	4–8.4 mA/V	Published tolerance
Triode input capacitance	2.3 pF	Published value
Triode output capacitance	0.3 pF	Published value
Triode transfer capacitance	1.1–1.8 pF	Published range
Pentode input capacitance	5.5 pF	Published value
Pentode output capacitance	3.2 pF	Published value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode transfer capacitance	0.025 pF	Maximum