



ELECTRONIC TUBE REFERENCE

10F18

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Variable-mu high-frequency pentode for gain-controlled RF amplification in AM/FM receivers using 100 mA series-connected heater chains.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	13 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.0044 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.25 W
MAXIMUM SCREEN DISSIPATION	0.5 W
<i>Ediswan/Mazda 10F18 indirectly heated variable-mu (remote-cutoff) HF pentode designed for AC/DC AM/FM receivers with a 13 V, 100 mA series heater. Published maximum plate 250 V, screen 250 V, plate dissipation 2.25 W, screen dissipation 0.5 W. Typical gm 4.4 mA/V at the listed 175 V anode and approximately 12 mA plate current; later Mazda revision (1961) lists anode impedance 400 kΩ, while earlier 1958 documentation gives 220 kΩ. The later value is promoted, and the source discrepancy recorded. Interelectrode capacitance and RF gain-control characteristics documented.</i>	

Variable-mu high-frequency pentode for AM/FM receivers with series-connected heaters.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Mazda

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

1960 MAZDA

Section 1 · Pentode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum heater-cathode voltage	150 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1973 Mazda Valves Binder 2

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

1973 MAZDA VALVES BINDER 2

Section 1 · Pentode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	13 V	Published nominal value
Heater or filament current	100 mA	Published nominal value

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	2.25 W	Published maximum rating

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker