



ELECTRONIC TUBE REFERENCE

1F3

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Directly heated variable-mu RF pentode designed for battery operation. Its gain-control characteristic makes it suitable for RF amplifier stages in portable receivers where automatic or manual gain variation is required.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	1.4 V / 50 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	500000 Ω
TRANSCONDUCTANCE	0.00087 S
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM SCREEN VOLTAGE	67.5 V
MAXIMUM CATHODE CURRENT	5.5 mA
<p>Mazda 1F3 directly heated 1.4 V, 50 mA variable-mu (remote-cutoff) RF pentode for battery-operated receivers with B7G seven-pin base. Maximum anode voltage 90 V, screen voltage 67.5 V, and maximum MEAN cathode current 5.5 mA. Mazda typical operating points (plate V/screen V: plate current, screen current, gm, approximate rp): 45/45 V: 1.6/0.7 mA, 0.65 mA/V, 350 kΩ; 67.5/67.5 V: 3.3/1.6 mA, 0.95 mA/V, 260 kΩ; 90/45 V: 1.7/0.66 mA, 0.70 mA/V, 800 kΩ; 90/67.5 V: 3.4/1.4 mA, 0.87 mA/V, 500 kΩ. Promoted transconductance and plate resistance use the 90 V anode / 67.5 V screen typical point, not maximum ratings. Manufacturer publishes interelectrode capacitances.</p>	

Variable-mu R.F. pentode, directly heated for battery operation.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Variable-mu characteristic	Remote cutoff	—

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