



ELECTRONIC TUBE REFERENCE

6250

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Directly heated space-charge-grid electrometer tetrode for extremely high input-resistance measurement circuits. Its specialized grid arrangement supports very-low-current instrumentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	2.56 V / 45 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.00004 S
AMPLIFICATION FACTOR	1.8
MAXIMUM PLATE VOLTAGE	9 V
<i>Mazda 6250 single directly heated electrometer tetrode, 2.56 V nominal 45 mA filament (40-50 mA published range). Manufacturer maximum anode 9 V, grid No.1 +6 V and grid No.2 negative rating -2 V as printed. Typical operation anode 9 V, space-charge grid No.1 +6 V, measuring grid No.2 -4 V; anode current approximately 75 μA, grid No.1 current approximately 525 μA and amplification factor 1.8. Mazda describes transconductance in an electrode-specific measuring arrangement; previous 0.00004 S field retained pending reconciliation. Measuring grid 2 capacitance to other electrodes 5.8 pF, very high grid insulation ($>10^{15} \Omega$) and minute reverse current. One physical tetrode section; measuring grid No.2 connected to top cap.</i>	

Directly heated space-charge-grid electrometer tetrode for extremely high input-resistance measurement circuits.



SOURCE OPERATING CONDITIONS

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1960 Mazda

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

1960 MAZDA

Section 1 · Tetrode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament current minimum	40 mA	—
Filament current maximum	50 mA	—



SOURCE OPERATING CONDITIONS

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1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Tetrode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	2.5 V	Nominal
HeaterCurrentNominal	45 mA	Nominal
Maximum Plate Voltage	9 V	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	40 μ S	Typical
Amplification Factor	1.8	Typical

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