



ELECTRONIC TUBE REFERENCE

VMS4

Voltage Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Variable-mu screen-grid valve for high- or intermediate-frequency amplification, designed to reduce cross modulation and permit smooth receiver gain control through grid-bias variation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	4 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	450000 Ω
TRANSCONDUCTANCE	0.0011 S
AMPLIFICATION FACTOR	500
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM SCREEN VOLTAGE	70 V
<i>Published ratings/characteristics promoted from the approved datasheet where legible.</i>	

A variable-mu screen-grid valve designed to reduce cross modulation and permit smooth gain control by grid-bias variation in H.F. or I.F. amplifiers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

192X Marconi Valve

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

192X MARCONI VALVE

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical screen voltage minimum	60 V	Published approximate operating data
Typical screen voltage maximum	80 V	Published approximate operating data
Grid bias operating range minimum	-40 V	Published approximate operating data
Grid bias operating range maximum	-4 V	Published approximate operating data



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Osram Valves

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

1937 OSRAM VALVES

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	4 V	Published datasheet value
Heater Current	1 A	Published datasheet value
Anode Voltage Maximum	250 V	Published datasheet value
Screen Voltage Maximum	80 V	Published datasheet value

Characteristic		
Parameter	Published Value	Condition / Note
Mutual Conductance	2400 μ S	Published datasheet value



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Tetrode

Characteristic		
Parameter	Published Value	Condition / Note
Heater/Filament Voltage	4 V	—
Heater/Filament Current	1 A	—
Transconductance	1100 μ S	—
Amplification Factor	500	—
Plate Resistance	450000 ohm	—

Other		
Parameter	Published Value	Condition / Note
Maximum/Published Anode Voltage	200 V	—
Maximum/Published Screen Voltage	70 V	—
Gain-control bias range	-14 to -40 V	—
Typical screen voltage	60-80 V	—