

ELECTRONIC TUBE REFERENCE

EEP1

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Secondary-emission tetrode for wide-band amplification and phase inversion. Its specialized electrode system provides high gain and signal-processing performance over a broad frequency range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
PLATE RESISTANCE	50000 Ω
TRANSCONDUCTANCE	0.017 S
AMPLIFICATION FACTOR	65
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	4 W
Secondary-emission tetrode; special secondary-cathode data retained in parameters.	

Secondary-emission tetrode for wide-band amplification and phase inversion. The supplied Philips source was read for heater data, ratings, characteristics, operating conditions, and capacitances; special secondary-emission quantities are retained as parameters where standard section fields do not apply.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	600 mA	—
Typical plate voltage	250 V	—
Secondary cathode voltage	150 V	—
Grid 2 voltage	150 V	—
Grid 1 voltage	-2.5 V	—
Plate current	8 mA	—
Secondary cathode current	-6.5 mA	—
Grid 2 current	0.45 mA	—
Transconductance	17000 μ S	—
Amplification factor	65	—
Plate resistance	50 kohm	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube construction	Secondary-emission amplifier system	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	7.5 pF	—
Secondary cathode capacitance	6 pF	—
Grid input capacitance	10.6 pF	—
Plate-grid capacitance maximum	0.006 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Secondary cathode-grid capacitance maximum	0.001 pF	—
Grid-heater capacitance maximum	0.05 pF	—

TUBE TINKER

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and their source documents.

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