



ELECTRONIC TUBE REFERENCE

C3M

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Professional universal long-life pentode for series or parallel heater operation, with approximately 10,000-hour guaranteed service life.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Loctal	BASE PINS	8
NOMINAL HEATER	20 V / 125 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	250000 Ω
TRANSCONDUCTANCE	0.0065 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM SCREEN DISSIPATION	1 W
MAXIMUM GRID DISSIPATION	0.05 W
MAXIMUM CATHODE CURRENT	30 mA
Published ratings and characteristics promoted where semantically applicable; additional published values retained as section parameters.	

Professional universal long-life pentode for series or parallel heater operation, with guaranteed 10,000-hour life.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Siemens

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

1963 SIEMENS

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	20 V	—
Heater current	125 mA	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6500 μ S	Nominal/Bogey
Amplification factor	19	Nominal/Bogey



SOURCE OPERATING CONDITIONS

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1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode supply voltage	225 V	Published datasheet value
Grid No.2 supply voltage	155 V	Published datasheet value
Cathode resistor	250 Ω	Published datasheet value
Output power	1.5 W	ClassA; Ra=10k Ω ; d=10%
Maximum cathode-heater voltage	—120 V	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum bulb temperature	—120 °C	Published datasheet value
Grid No.3 maximum voltage	—300 V	Published datasheet value
Grid No.3 maximum dissipation	—1 W	Published datasheet value
Triode-connected combined dissipation	—5 W	TriodeConnection

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current	13.5–19 mA	Published datasheet value
Grid No.2 current	2–4 mA	Published datasheet value
Mutual conductance	5.5–7.8 mA/V	Published datasheet value
Internal resistance	200— kΩ	Published datasheet value
Amplification factor	19	Published datasheet value
Equivalent noise resistance RF	—2000 Ω	Published datasheet value
Equivalent noise resistance RF triode-connected	650 Ω	TriodeConnection
Equivalent noise resistance AF	5000 Ω	500-3000 Hz
Cathode heating time	19–33 s	Published datasheet value
Input capacitance	7.5–9.5 pF	Published datasheet value
Output capacitance	4.5–7.7 pF	Published datasheet value
Anode-grid No.1 capacitance	—0.018 pF	Published datasheet value
Grid-heater capacitance	—0.04 pF	Published datasheet value
Anode-heater capacitance	0.12 pF	Published datasheet value
Life test duration	10000 h	Published datasheet value

TUBE TINKER

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