

ELECTRONIC TUBE REFERENCE

PC97

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Low-capacitance VHF RF triode intended specifically for television-tuner amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	MINIATURE	BASE PINS	–
NOMINAL HEATER	4.5 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.013 S
AMPLIFICATION FACTOR	65
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	20 mA
Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed where applicable.	

Low-anode-to-grid-capacitance RF triode intended for VHF television-tuner amplification.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving Tubes for Maintenance

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

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I _h	300 mA	Published in approved PC97.pdf target datasheet; Section1
Ca- g 480	0.5 pF	Published in approved PC97.pdf target datasheet; Section1
Cg-k 3.2	3.2 pF	Published in approved PC97.pdf target datasheet; Section1
Ca-k 210	0.25 pF	Published in approved PC97.pdf target datasheet; Section1
Cg-k+h+S 5.0	5 pF	Published in approved PC97.pdf target datasheet; Section1
Ca-k +h+S 4.2	3.3 pF	Published in approved PC97.pdf target datasheet; Section1
Cg- h 280	0.28 pF	Published in approved PC97.pdf target datasheet; Section1
Ck- h 2.5	2.5 pF	Published in approved PC97.pdf target datasheet; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I _a	11 mA	Published in approved PC97.pdf target datasheet; Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I _a 10.5 13 14	14 mA	Published in approved PC97.pdf target datasheet; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
gm 13 15.5 16	16 mA	Published in approved PC97.pdf target datasheet; Section1
la 12 13 14	14 mA	Published in approved PC97.pdf target datasheet; Section1
Ik max	20 mA	Published in approved PC97.pdf target datasheet; Section1
B	7 G	Published in approved PC97.pdf target datasheet; Section1


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1973 Mazda Valves Binder 2

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

1973 MAZDA VALVES BINDER 2

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	4.5 V	Published nominal value
Heater current	300 mA	Published nominal value
Transconductance	13000 μ S	Published operating characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	2.2 W	Published maximum rating


SOURCE DATA APPENDIX

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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	135 V	—
Typical grid voltage	-1 V	—
Typical plate current	11 mA	—
Transconductance	13000 μ S	—
Amplification factor	65	—
Plate resistance	5000 ohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode capacitance	4.3 pF	—
Grid capacitance	5 pF	—
Anode-grid capacitance	0.48 pF	—
Anode-cathode capacitance	0.21 pF	—
Grid-cathode capacitance	3.2 pF	—
Cathode-heater capacitance	2.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating transconductance	14000 μ S	PlateSupply=200V;CathodeResistor=82ohm
Operating transconductance	15500 μ S	PlateSupply=200V;FixedBias