



ELECTRONIC TUBE REFERENCE

EC97

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

RF triode intended for high-frequency television receiver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 215 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.013 S
AMPLIFICATION FACTOR	65
MAXIMUM PLATE VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	20 mA
High-slope RF triode for VHF television-tuner amplification.	

RF triode intended for high-frequency television receiver service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V1a

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1A

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	135 V	—
Grid voltage	-1 V	—
Plate current	11 mA	—
Maximum plate voltage	175 V	—
Maximum plate dissipation	2 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	13000 μ S	—
Amplification factor	65	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	4.3 pF	—
Grid capacitance	5 pF	—
Grid-plate capacitance	0.48 pF	—

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cg- k 3.2	3.2 pF	Published in approved EC97.pdf target datasheet; Section1
Cg- k + h+S 5.0	5 pF	Published in approved EC97.pdf target datasheet; Section1
Ca-k +h +S 4.2	3.3 pF	Published in approved EC97.pdf target datasheet; Section1
Ck-h 2.5	2.5 pF	Published in approved EC97.pdf target datasheet; Section1
la 10.5 13 14	14 mA	Published in approved EC97.pdf target datasheet; Section1
gm 13 15.5 16	16 mA	Published in approved EC97.pdf target datasheet; Section1
la 12 13 14	14 mA	Published in approved EC97.pdf target datasheet; Section1
gm 14 15.5 16	16 mA	Published in approved EC97.pdf target datasheet; Section1
Ik max	20 mA	Published in approved EC97.pdf target datasheet; Section1



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	215 mA	Nominal
Maximum Plate Voltage	200 V	—
Maximum Plate Dissipation	2.2 W	—
Maximum Cathode Current	20 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	13000 μ S	Typical
Amplification Factor	65	Typical
Plate Resistance	5000 ohm	Typical



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode voltage	135 V	—
Typical anode current	11 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid voltage at 0.65 mA/V	3.1 V	VariableMu