

ELECTRONIC TUBE REFERENCE

PC86

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

300 mA series-heater UHF triode for television Bands IV/V oscillator and mixer service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	NOVAL	BASE PINS	7
NOMINAL HEATER	3.8 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4850 Ω
TRANSCONDUCTANCE	0.014 S
AMPLIFICATION FACTOR	68
MAXIMUM PLATE VOLTAGE	220 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	20 mA
Published section ratings and characteristics promoted where applicable.	

300 mA series-heater UHF triode for oscillator and mixer service in television Bands IV and V; the source refers to EC86 for remaining characteristics.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tesla

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

195X TESLA

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	3.8 V	Published nominal value
Heater current	300 mA	Published nominal value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving and Amplifying Valves

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

1967 MULLARD RECEIVING AND AMPLIFYING VALVES

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
C	2.2 pF	Published in approved PC86 target datasheet entry; Section1
c	0.24 pF	Published in approved PC86 target datasheet entry; Section1
ca _ k + h	0.35 pF	Published in approved PC86 target datasheet entry; Section1
ca _ g + h 2	3 pF	Published in approved PC86 target datasheet entry; Section1
cg _ k 3	5 pF	Published in approved PC86 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
c _ k (I = 12rnA) 5	6 pF	Published in approved PC86 target datasheet entry; Section1
cg _ k + h	3.8 pF	Published in approved PC86 target datasheet entry; Section1
cg _ h	0.3 pF	Published in approved PC86 target datasheet entry; Section1
ck _ g + h	6.3 pF	Published in approved PC86 target datasheet entry; Section1
4	1 pF	Published in approved PC86 target datasheet entry; Section1
C	3.3 pF	Published in approved PC86 target datasheet entry; Section1
ca _ k + h	0.3 pF	Published in approved PC86 target datasheet entry; Section1
gm	14 mA	Published in approved PC86 target datasheet entry; Section1
gc 5	5 mA	Published in approved PC86 target datasheet entry; Section1



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	3.8 V	Published nominal or stated operating value
Heater or filament current	300 mA	Published nominal or stated operating value
Transconductance	14000 μ S	Published/reference characteristic

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



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1972 Philips Receiving Tubes

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

1972 PHILIPS RECEIVING TUBES

Section 1 · Triode

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	UHF_Amplifier_Oscillator_Mixer text	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	3.8 V	Published nominal value
Heater current	300 mA	Published nominal value
Transconductance	14000 μ S	Published operating characteristic

OTHER

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



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	175 V	—
Typical grid voltage	-1.5 V	—
Typical plate current	12 mA	—
Transconductance	14000 uS	—
Amplification factor	68	—
Plate resistance	4857 ohm	—
Equivalent noise resistance	230 ohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-grid capacitance	2.2 pF	—
Anode-cathode capacitance	0.24 pF	—
Grid-cathode capacitance	3.5 pF	—
Grid-heater capacitance	0.27 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum cold plate voltage	550 V	—
Maximum plate voltage	220 V	—