

ELECTRONIC TUBE REFERENCE

E88C

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Special-quality UHF triode for professional high-frequency amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Noval	BASE PINS	9
NOMINAL HEATER	6.3 V / 155 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4800 Ω
TRANSCONDUCTANCE	0.0135 S
AMPLIFICATION FACTOR	65
MAXIMUM PLATE DISSIPATION	2.6 W
MAXIMUM CATHODE CURRENT	16.5 mA
Special-quality low-noise VHF/UHF grounded-grid aerial-amplifier triode.	

E88C is a Triode device. Special-quality low-noise VHF/UHF grounded-grid aerial-amplifier triode.

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	160 V	—
Grid voltage	-1.25 V	—
Plate current	12.5 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	13500 μ S	—
Amplification factor	65	—
Plate resistance	4.8 k Ω m	—
Equivalent noise resistance	240 Ω m	—
Noise figure at 850 MHz	10 dB	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-to-grid capacitance	1.2 pF	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Siemens

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency limit	1000 MHz	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Noise figure	7.7 dB	800MHz
Cathode resistance	230 0hm	—



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Life test	10000 h	Published datasheet value
Heater voltage Vg	6.3 V	Published datasheet value
Heater current Ig	155 mA	Published datasheet value
Anode current Iy	12.5 mA	Published datasheet value
Mutual conductance S	13.5 mA/V	Published datasheet value
Noise figure at	850 MHz	Published datasheet value
Anode voltage Va	160 V	Published datasheet value
Equivalent noise resistance Req	240 Q	Published datasheet value
Frequency	850 MHz	Published datasheet value
Anode supply voltage Vba	170 V	Published datasheet value
Cathode resistor R	820 Q	Published datasheet value
Grid supply voltage +Vbg	9 V	Published datasheet value
Anode current I	12.5 mA	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode supply voltage Vba	161 V	Published datasheet value
Cathode resistor Rk	100 Q	Published datasheet value
and heater Vif =	125 V	Published datasheet value
Grid to cathode and heater Cg/kf	-4.4 pF	Published datasheet value
The tube is subjected during	32 h	Published datasheet value
Production samples are tested during	10000 h	Published datasheet value
Anode dissipation Wy max	2.6 W	Published datasheet value
Cathode current Ik max	16.5 mA	Published datasheet value
Grid dissipation Wg max	50 mW	Published datasheet value
Cathode positive Vif(kH) max	125 V	Published datasheet value
Heater voltage: The average heater voltage should be	6.3 V	Published datasheet value
Variation of the heater voltage exceeding the range of	6 V	Published datasheet value
Frequency f	800 MHz	Published datasheet value
Bandwidth	8 MHz	Published datasheet value
Anode current Iy	12.8 mA	Published datasheet value
Z =	60 Q	Published datasheet value