

ELECTRONIC TUBE REFERENCE

EC1000

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Premium subminiature frame-grid triode designed for high-frequency probe and instrumentation service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	NOVAL	BASE PINS	–
NOMINAL HEATER	6.3 V / 185 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	1897 Ω
TRANSCONDUCTANCE	0.0145 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	22 mA
Triode section; values semantically promoted from published characteristics/maximum-ratings tables where present.	

Premium-quality subminiature frame-grid triode designed for high-frequency probe service.



SOURCE OPERATING CONDITIONS

1953 Amperex

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

1953 AMPEREX

Section 1 · Triode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Cathode Capacitance	3.5 pF	Published direct interelectrode capacitance
Grid To Plate Capacitance	1.9 pF	Published direct interelectrode capacitance



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 La Radiotechnique

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

1953 LA RADIOTECHNIQUE

Section 1 · Triode

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Indirect (cathode isolee du filament)	6.3 V	Triode
Alimentation en parallele. !lf	185 mA	Triode
Tension de l''anode	80 v	Triode
Tension de la grille	2 V	Triode
Courant anodique	14 mA	Triode
Pente	14.5 mA/V	Triode
Courant de la grille	-8 A	Triode
Resistance d'entree (250 MHz)	250 MHz	Triode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequence de resonance d'entree	400 MHz	Triode
Tension de bruit (0-10 kHz)	-10 kHz	Triode
Tension de microphonie (50 Hz, 49)	50 Hz	Triode
(en cathodyne, la bande passante peut dépasser 0 a 300 MH2z)	0 a	Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cyk	0.05 pF	Triode
Cag	0.3 pF	Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension de l'anode	110 V	Triode
Puissance dissipee sur l'anode	1.5 W	Triode
Tension de la grille	55 V	Triode
Courant cathodique	22 mA	Triode
Tension filament-cathode	55 V	Triode


SOURCE DATA APPENDIX

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	80 V	ProbeAmplifier

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid voltage	-2 V	ProbeAmplifier
Plate current	14 mA	ProbeAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	14500 μ S	Section1
Amplification factor	24	Section1
Input resistance at 250 MHz	450 Ω	250MHz
Input resonance frequency	400 MHz	Section1
Negative grid current after 1000 hours maximum	0.01 μ A	EndOfLife
Equivalent noise voltage maximum	1 mV	Section1
Equivalent microphony voltage maximum	1 mV	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-to-grid capacitance	1.9 pF	Section1
Anode-to-cathode capacitance	0.5 pF	Section1
Grid-to-cathode capacitance	3.5 pF	Section1


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
Heater voltage	6.3 V	—
Heater current	185 mA	—
Typical plate voltage	80 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical grid voltage	-2 V	—
Typical plate current	14 mA	—
Transconductance	14500 μ S	—
Amplification factor	27.5	—
Input resistance	300 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	275 V	—
Maximum plate dissipation	1.5 W	—
Maximum cathode current	22 mA	—
Maximum cathode-heater voltage	55 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-heater capacitance	0.033 pF	Typical
Plate-to-heater capacitance	0.27 pF	Typical