



ELECTRONIC TUBE REFERENCE

EC55

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Power-capable triode intended for amplifier or driver service. Manufacturer data support moderate-current operation and useful dissipation, but do not justify assignment to the large transmitting or specialized regulator families.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 400 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	40 mA
<i>Published ratings and characteristics promoted from the approved source.</i>	

EC55 is listed in the supplied Amperex material as a disc-seal microwave triode for amplifier and oscillator service. Published operating conditions and electrical characteristics were captured from the supplied tables.



SOURCE OPERATING CONDITIONS

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	400 mA	Nominal
Maximum Plate Voltage	350 V	—
Maximum Plate Dissipation	10 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5600 μ S	Typical
Amplification Factor	3	Typical



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

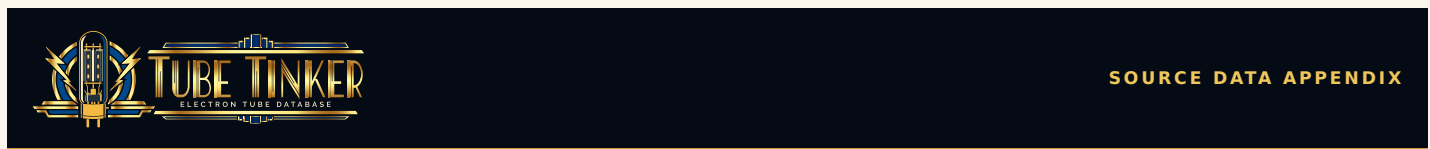
1963 AMPEREX CONDENSED

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	400 mA	Published heater rating
Amplification factor	30	MicrowaveTriode
Transconductance	6000 μ S	MicrowaveTriode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gain	8 dB	At 4000 MHz
Bandwidth	50-0.1 dB MHz	At 4000 MHz

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	10 W	MicrowaveTriode
Plate voltage	250 V	MicrowaveTriode
Plate current	20 mA	MicrowaveTriode
Power output	2.8 W	At 1000 MHz
Power output	0.5 W	At 3000 MHz
Power output	1.8 W	At 4000 MHz



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	250 V	—
Grid voltage	-3.5 V	—
Plate current	20 mA	—
Maximum plate voltage	350 V	—
Maximum useful frequency	3000 MHz	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6000 uS	—
Amplification factor	30	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	0.03 pF	—
Grid capacitance	1.6 pF	—
Grid-plate capacitance	—1.3 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V3

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V3

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	400 mA	Published heater rating
Transconductance	6000 μ S	MicrowaveTriode
Amplification factor	30	MicrowaveTriode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	MicrowaveTriode
Grid bias	-3.5 V	MicrowaveTriode
Plate current	20 mA	MicrowaveTriode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	0.03 pF	Published
Grid capacitance	1.8 pF	Published

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	250 V	—
Typical anode current	20 mA	—
Maximum anode current	40 mA	—