

ELECTRONIC TUBE REFERENCE

8108

Specialized - Microwave Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Long-life disc-seal microwave triode for amplifier, oscillator, frequency-doubler, and tripler service into the multi-gigahertz region.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 735 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.021 S
AMPLIFICATION FACTOR	43
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	12.5 W
MAXIMUM GRID DISSIPATION	0.2 W
MAXIMUM CATHODE CURRENT	70 mA
Published ratings/characteristics promoted from the source; representative section used for repeated identical systems where applicable.	

Long-life disc-seal microwave triode for amplifier, oscillator, frequency-doubler and tripler applications into the multi-gigahertz region.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	21000 μ S	—
Amplification Factor	43	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	300 V	—
Maximum Plate Dissipation	12.5 W	—
Maximum Grid Dissipation	0.2 W	—
Maximum Cathode Current	70 mA	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	180 V	—
Plate current	60 mA	—
Power output	0.5 W	Gain 19 dB; bandwidth 25-3.0 dB; 3000 MHz
Power output	0.25 W	Doubler; 6000 MHz

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output	0.5 W	Gain 13 dB; bandwidth 50-0.1 dB; 4000 MHz
Maximum useful frequency	6000 MHz	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	21000 μS	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.4 pF	—
Input capacitance	3 pF	—
Plate-to-filament capacitance	0.035 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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