

ELECTRONIC TUBE REFERENCE

6447

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled version of the ruggedized 6446 high-power industrial RF triode.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	22 V / 60 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	14000 V
MAXIMUM PLATE DISSIPATION	10000 W
MAXIMUM CATHODE CURRENT	2 A
Published promoted ratings/characteristics captured where applicable; additional source values preserved in parameter rows.	

Forced-air-cooled version of the ruggedized 6446 heavy-wall industrial RF triode.



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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Forced air	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency at full plate voltage and input	5 MHz	—
Maximum plate current	2 A	—
Plate input maximum	26 kW	ClassC
Typical RF power output at 12 kV	17.1 kW	ClassC



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	12000 V	RFPower
Plate current	2 A	RFPower
Power output	17500 W	RFPower

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid voltage	-500 V	RFPower
Grid current	230 mA	RFPower
Maximum frequency	5 MHz	FullInput

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	32 pF	—
Grid-filament capacitance	17 pF	—
Plate-filament capacitance	1.8 pF	—

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