



ELECTRONIC TUBE REFERENCE

7527

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

All-glass VHF power tetrode documented by Amperex. Its construction and published operating data support radio-frequency output service at very-high frequencies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	5 V / 14.1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM SCREEN DISSIPATION	35 W
<i>Published maximum ratings and general characteristics promoted from the supplied datasheet.</i>	

7527 is listed in the supplied Amperex material as a all-glass VHF power tetrode. Published electrical ratings and operating data were captured from the supplied table.



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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	5 V	—
Heater/Filament Current	14.1 A	—
Maximum Plate Voltage	4000 V	—
Maximum Plate Dissipation	400 W	—
Maximum Screen Dissipation	35 W	—



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 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	5 V	Published rating
Heater/filament current	14.1 A	Published rating
Amplification factor	6.1	TransmittingService

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	400 W	TransmittingService
Plate voltage	4000 V	TransmittingService

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	270 mA	TransmittingService
Power output	800 W	TransmittingService
Grid bias	-170 V	TransmittingService
Grid current	9.5 mA	TransmittingService
Maximum frequency	500 MHz	TransmittingService