



ELECTRONIC TUBE REFERENCE

418A

Power - Tetrode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Indirectly heated power tetrode designed primarily for broadband video and intermediate-frequency amplifier output stages. Its output capability combines substantial load drive with wide frequency response.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	18000 Ω
TRANSCONDUCTANCE	0.0265 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	8.5 W
MAXIMUM SCREEN DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	90 mA
<i>Promoted fields mapped from printed maximum-rating and characteristic headings; additional published values preserved in parameter rows.</i>	

Indirectly heated tetrode designed primarily as a power-output tube in broadband video and intermediate-frequency amplifiers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 400s

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

2026 WESTERN ELECTRIC 400S

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage . . v ϕ v	4 volts	Heater Voltage . . v ϕ v 4 4 v 4 4 4 4 4 0 o o o o o o o o 6.3 volts
Cathode Current . . ./Ep =Ec	150 milliamperes	Cathode Current . . ./Ep =Ec2 =150 volte Y. + + + &+ &+ « . . T0 milliamperes
Plate Voltage o+ o ϕ « «	4 volts	Plate Voltage o+ o ϕ « « 4 o ϕ 2 ϕ o o o & & o ϕ ϕ « & = » » = 250 volts
Cathode Current + + o+ & o	4 milliamperes	Cathode CUrrent + + o+ & o 4 @ o & & o s o s « = o = 2 2 « s « = 90 milliamperes
Heater-Cathode VOltagE .+ & ϕ ϕ ϕ o &	4 volts	Heater-Cathode VOltagE .+ & ϕ ϕ ϕ o & 4 = o = o o 2 o # « « « =« 90 volts
For Cathcde Bias . &	4 megohm	For Cathcde Bias . & 4 & v & ϕ 4 ϕ 2 ϕ o a s « o a o o o o » 0.10 megohm
Plate Voltage « ϕ + & v v v	4 volts	Plate Voltage « ϕ + & v v v 4 v v v v ϕ ϕ & & » 120 150 volts
Screen Grid Voltage . . + « & & v	4 volts	Screen Grid Voltage . . + « & & v 4 4 4 o o o = 120 150 volts
Control Grid Voltage .+ +« + « « + o &+ o	2 volts	Control Grid Voltage .+ +« + « « + o &+ o 2 o = o -1.0 - volts
Plate Current . « . o« o o o « o s o &	2 milliamperes	Plate Current . « . o« o o o « o s o & 2 s « = « = 47 50 milliamperes
Screen Grid Current . . v« ϕ & &	4 milliamperes	Screen Grid Current . . v« ϕ & &+ 4 ϕ 4 « ϕ + o o . 20 20 milliamperes
Plate Resistance . . . v v « v ϕ « o o« v =« « »	18000 ohms	Plate Resistance . . . v v « v ϕ « o o« v =« « » - . 18000 18000 ohms
Plate Current of	10 volts	Plate Current of 10 mMicroamperes .« « + « + « « & -9.5 --- volts

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation « v v	4 watts	Plate Dissipation « v v 4 = v o 4 4 5 o 4 & = & = o « 4 « v o« 8.5 watts
Screen Grid Dissipation + & & v	4 watts	Screen Grid Dissipation + & & v 4 & ¢ 40 4 & 4 4 & 4 4 4 .o 3.0 watts

TUBE TINKER

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