



ELECTRONIC TUBE REFERENCE

6L50V

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

High-voltage pulse version of the 6L50 power pentode, designed for multi-kilovolt pulse amplification and switching with substantial short-duration current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	S9/25	BASE PINS	9
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	75000 Ω
TRANSCONDUCTANCE	0.0035 S
MAXIMUM PLATE VOLTAGE	4500 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	18 W
MAXIMUM SCREEN DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	100 mA
<i>Electrical section mapped from published characteristics and maximum ratings.</i>	

High-voltage pulse-rated version of the 6L50 power pentode.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tesla

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

195X TESLA

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	400 V	—
Screen voltage	250 V	—
Plate current	30 mA	—
Transconductance	3500 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pulse plate voltage	3000 V	PulseOperation
Pulse plate current	330 mA	PulseOperation



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1969 Tesla Manual of Electronic Tubes

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

1969 TESLA MANUAL OF ELECTRONIC TUBES

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	1 A	Published nominal value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3500 μS	Published operating characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	18 W	Published maximum rating
Maximum pulse duration	10 μs	Published pulse limit

TUBE TINKER

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