ELECTRONIC TUBE REFERENCE

6L10

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Power pentode intended for the output stage of wideband amplifiers. Its power-capable construction supports broadband load drive rather than conventional low-level signal amplification.

General characteristics

BASE DESIGNATION	K8/18	**BASE PINS**	8
NOMINAL HEATER	6.3 V / 650 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Pentode	
PLATE RESISTANCE	90000 Ω
TRANSCONDUCTANCE	0.011 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	9 W
MAXIMUM SCREEN DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	50 mA

Electrical section mapped from published characteristics and maximum ratings.

Power pentode intended for wideband amplifier output stages.

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	300 V	—
Screen voltage	150 V	—
Plate current	30 mA	—
Screen current	7 mA	—
Transconductance	11000 uS	—

SOURCE DATA APPENDIX

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	650 mA	Published nominal value
Transconductance	11000 µS	Published operating characteristic

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum plate dissipation	**9 W**	Published maximum rating

Tube Tinker

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