



ELECTRONIC TUBE REFERENCE

3E6

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Directly heated sharp-cutoff RF pentode with flexible series/parallel filament operation for battery equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7CJ	BASE PINS	8
NOMINAL HEATER	2.8 V / 50 mA	PARALLEL HEATER	1.4 V / 100 mA
HEATING	Direct	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	325000 Ω
TRANSCONDUCTANCE	0.0017 S
MAXIMUM PLATE VOLTAGE	110 V
MAXIMUM SCREEN VOLTAGE	110 V
MAXIMUM CATHODE CURRENT	12 mA
<i>Tung-Sol 3E6 directly heated 8-pin lock-in high-gm sharp-cutoff RF pentode with two-section series/parallel filament. SERIES: filament 2.8 V 50 mA, typical plate/screen 90 V, plate current 2.9 mA, screen current 1.2 mA, gm 1700 μmhos (0.0017 S), approximate plate resistance 325 kΩ. PARALLEL: filament 1.4 V 100 mA, same typical 90 V plate/screen, gm 2000 μmhos (0.002 S), rp 250 kΩ. Manufacturer maximum plate and screen 110 V. Maximum cathode current 12 mA in series operation, or 6 mA per 1.4 V filament section in parallel mode. Manufacturer specifies external shunting resistor across filament sections for series service. Existing B7G socket code is inconsistent with manufacturer's eight-pin lock-in base; held pending canonical base-code reconciliation.</i>	

Sharp-cutoff RF pentode with series/parallel filament operation for battery equipment.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	ClassA;SeriesFilaments
Screen-grid voltage	90 V	ClassA;SeriesFilaments
Grid No.1 bias	R=2meg V	ClassA;SeriesFilaments
Plate current	2.9 mA	ClassA;SeriesFilaments
Screen-grid current	1.2 mA	ClassA;SeriesFilaments
Plate resistance	325000 ohm	ClassA;SeriesFilaments
Transconductance	1700 uS	ClassA;SeriesFilaments
Plate voltage	90 V	ClassA;ParallelFilaments
Screen-grid voltage	90 V	ClassA;ParallelFilaments
Grid No.1 bias	R=2meg V	ClassA;ParallelFilaments
Plate current	4.2 mA	ClassA;ParallelFilaments
Screen-grid current	1.7 mA	ClassA;ParallelFilaments
Plate resistance	250000 ohm	ClassA;ParallelFilaments
Transconductance	2000 uS	ClassA;ParallelFilaments

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAX IMUM PLATE VOLTAGE 110	110 VOLTS	Published datasheet value
MAX IMUM CATHODE CURRENT 6°	12 VOLTS	Published datasheet value
PLATE VOLTAGE 90	90 VOLTS	Published datasheet value
PLATE CURRENT 4.2	2.9 MA	Published datasheet value
GRID #2 CURRENT 1.7	1.2 MA	Published datasheet value

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