

ELECTRONIC TUBE REFERENCE

6487

Voltage Pentode or Tetrode (with diode) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Mullard diode-pentode with published amplifier characteristics; available documentation does not establish a sufficiently specific functional role for narrower classification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8FW	BASE PINS	8
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode
No fixed ratings recorded. Promoted from clearly identified printed ratings/characteristics; additional published operating points and capacitances retained in TUBE_SECTION_PARAMETER. The source identifies the diode section but does not publish separate diode electrical ratings on this row.

SECTION2 Pentode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.0025 S
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	190 V
MAXIMUM SCREEN VOLTAGE	190 V
MAXIMUM PLATE DISSIPATION	0.75 W
MAXIMUM SCREEN DISSIPATION	0.4 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Promoted from clearly identified printed ratings/characteristics; additional published operating points and capacitances retained in TUBE_SECTION_PARAMETER.</i>	

Mullard pentode with published ratings and characteristics extracted from the supplied datasheet.

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 2 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	4.5 pF	Section2
Output capacitance	4.7 pF	Section2
Grid-to-plate capacitance	0.02 pF	Section2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Screen voltage	100 V	ClassA
Control-grid voltage	-2 V	ClassA
Plate current	3 mA	ClassA
Screen current	2.45 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	100000 Ω	ClassA
Transconductance	2500 μS	ClassA

1963 Mullard

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

1963 MULLARD
Section 2 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	200 mA	—
Plate Voltage	100 V	—
Screen Voltage	100 V	—
Grid Voltage	-2 V	—
Plate Current	3 mA	—
Screen Current	2.45 mA	—
Transconductance	2500 uS	—
PlateToGridCapacitanceMax	0.02 pF	—
Input Capacitance	4.5 pF	—
Output Capacitance	4.7 pF	—