



ELECTRONIC TUBE REFERENCE

6F33

Voltage Pentode or Tetrode (with diode) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

High-frequency pentode with auxiliary diode for controlled amplification, mixing, variable-reactance, modulator, and timing applications at HF through UHF.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B7G	BASE PINS	7
NOMINAL HEATER	6.3 V / 350 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.00435 S
AMPLIFICATION FACTOR	38
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.8 W
MAXIMUM CATHODE CURRENT	18 mA
Electrical section mapped from published characteristics and maximum ratings.	

SECTION2 Diode	
No fixed ratings recorded.	
Diode tied to suppressor grid per source; no separate electrical ratings published.	

TESLA 6F33 is an indirectly heated high-frequency pentode intended at high and ultra-high frequencies as a controlled amplifier, input amplifier, mixer and similar service.



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	120 V	—
Screen voltage	120 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	4.5 pF	—
Output capacitance	2.5 pF	—



SOURCE OPERATING CONDITIONS

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1960 Mazda

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

1960 MAZDA

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Heater Cathode Voltage	100 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Earth Capacitance	4.5 pF	—
Anode Control Grid Capacitance	0.01 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ControlGridEarthCapacitance	7.3 pF	—
SuppressorGridEarthCapacitance	10 pF	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1961 AEI Industrial Valves

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1961 AEI INDUSTRIAL VALVES

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Heater Cathode Voltage	100 V	DC

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Earth Capacitance	4.5 pF	—
Anode Control Grid Capacitance	0.01 pF	—
ControlGridEarthCapacitance	7.3 pF	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1961 Associated Electrical Industries

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

1961 ASSOCIATED ELECTRICAL INDUSTRIES

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Heater Cathode Voltage	100 V	DC

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Earth Capacitance	4.5 pF	—
Anode Control Grid Capacitance	0.01 pF	—
ControlGridEarthCapacitance	7.3 pF	—