



ELECTRONIC TUBE REFERENCE

39

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Remote-cutoff RF pentode using a 6.3 V, 0.3 A heater. Designed for variable-gain high-frequency amplification, it is suited to automatic-volume-control stages in radio receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5F	BASE PINS	5
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.00105 S
AMPLIFICATION FACTOR	1050
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	90 V
<i>Published ratings and characteristics promoted from the approved datasheet.</i>	

39 is listed in the supplied receiving-tube handbook as a remote-cutoff RF pentode. The published heater/filament rating is 6.3 V at 0.3 A.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1932 Cunningham Radio Tubes

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

1932 CUNNINGHAM RADIO TUBES

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	0.007 pF	Published direct interelectrode capacitance



SOURCE OPERATING CONDITIONS

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1937 Raytheon Radio Receiving Tubes

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1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA
Screen Voltage	90 V	ClassA
Grid Voltage	-3 V	ClassA
Plate Current	5.8 mA	ClassA
Screen Current	1.4 mA	ClassA



193X Cunningham

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

193X CUNNINGHAM

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	Published nominal
Heater/filament current	300 mA	Published nominal
Transconductance	1050 μ S	Published characteristic



SOURCE DATA APPENDIX

1940 RCA

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

1940 RCA

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal value
Heater or filament current	300 mA	Published nominal value
Transconductance	1050 μ S	Published representative/high operating value
Amplification factor	1050	Published representative/high operating value
Plate resistance	1000000 ohm	Published representative/high operating value
Remote-cutoff transconductance	2 μ S	At -42.5 V bias

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	RF amplifier; IF amplifier; mixer	Published use

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	250 V	ClassA
Screen Voltage	90 V	ClassA
Grid Voltage	-3 V	ClassA
Plate Current	5.8 mA	ClassA
Screen Current	1.4 mA	ClassA

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

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Screen voltage	90 V	ClassA
Plate current	5.8 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1050 μ S	ClassA
Control grid voltage for transconductance 2 μ S	-42.5 V	RemoteCutoff

TUBE TINKER

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