



ELECTRONIC TUBE REFERENCE

1M5G

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Super-control RF amplifier pentode. Its manufacturer designation identifies an extended-control characteristic intended for variable-gain radio-frequency amplification, making automatic gain control a central part of its receiver application.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	2 V / 120 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	800000 Ω
TRANSCONDUCTANCE	0.001 S
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	90 V
MAXIMUM PLATE DISSIPATION	0.5 W
MAXIMUM SCREEN DISSIPATION	0.1 W
<i>Amalgamated Wireless Radiotron 1M5-G directly heated super-control remote-cutoff RF amplifier pentode, 2.0 V DC filament, 120 mA. Printed manufacturer design limits anode 180 V, screen 90 V, screen-supply 180 V, anode dissipation 0.5 W, screen dissipation 0.1 W. Typical at plate 135 V, screen 67.5 V, grid 0 V: anode current ~2.5 mA, screen current 0.9 mA, transconductance 1000 μmhos (0.001 S), plate resistance 0.8 MΩ. Other typical 135 V operating points use screen 30/45/90 V, gm 600/780/700 μmhos; values vary with bias. Published capacitances: grid-plate 0.010 pF, input 6 pF, output 9.5 pF. Manufacturer original confirms 2 V 0.12 A despite prior database 1.4 V 0.05 A.</i>	

Super-control R.F. amplifier pentode.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Amalgamated Wireless

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

1946 AMALGAMATED WIRELESS

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.01 pF	Direct interelectrode capacitance
Input capacitance	6 pF	Direct interelectrode capacitance
Output capacitance	9.5 pF	Direct interelectrode capacitance

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