



ELECTRONIC TUBE REFERENCE

1Q5G

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Low-drain battery beam-power amplifier designed for portable audio-output service, with published output around a quarter watt under typical operating conditions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	1.4 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
TRANSCONDUCTANCE	0.0022 S
MAXIMUM PLATE VOLTAGE	110 V
MAXIMUM SCREEN VOLTAGE	110 V
MAXIMUM CATHODE CURRENT	12 mA
<i>Source-defined physical/function section.</i>	

Sylvania 1Q5G is a low-drain battery directed-electron power amplifier with published output and distortion data.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Ken Rad

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

1937 KEN RAD

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	80 V	Plate Voltage 80 Volts
Screen Voltage	90 V	Screen Voltage 90 Volts
Grid Voltage	-4.5 V	Control Grid Voltage -4.5 Volts
Plate Current	9.5 mA	Plate Current 9.5 Milliamperes
Screen Current	1.6 mA	Screen Current 1.6 Milliamperes
Mutual Conductance	2100 μ S	Mutual Conductance 2,100 Micromhos
Load Resistance	8000 ohm	Load Resistance 8,000 Ohms

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	1.4 V	Published filament rating
Filament current	100 mA	Published filament rating



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	85 V	Cond1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	90 V	Cond2 max
Plate Current	8.2 mA	Cond1
Plate Current	9.5 mA	Cond2
Load Impedance	8000 ohm	—
Power Output	225 mW	Cond1
Power Output	270 mW	Cond2
Total Harmonic Distortion	9 %	Cond1
Total Harmonic Distortion	7.5 %	Cond2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1950 μS	Cond1
Transconductance	2100 μS	Cond2

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