



ELECTRONIC TUBE REFERENCE

DBS1

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Directly heated low-voltage screen tetrode for economical receiving equipment. Available source material confirms screened-tetrode operation without a narrower specialized function.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.5 V / 70 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	650000 Ω
TRANSCONDUCTANCE	0.00058 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	80 V
Screen-grid tetrode section.	

The Mullard DBS1 is a directly heated screen-grid tetrode intended for low-voltage battery-operated circuits.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.5 V	—
Filament Current	70 mA	—
Plate Voltage	120 V	OperatingPoint1
Screen Voltage	45 V	OperatingPoint1
Plate Current	0.8 mA	OperatingPoint1
Transconductance	430 uS	OperatingPoint1
Plate Resistance	650000 ohm	OperatingPoint1
Plate Voltage	120 V	OperatingPoint2
Screen Voltage	60 V	OperatingPoint2
Plate Current	1.5 mA	OperatingPoint2
Transconductance	580 uS	OperatingPoint2
Plate Resistance	500000 ohm	OperatingPoint2
Plate-Grid Capacitance	0.07 pF	—
Input Capacitance	5.7 pF	—
Output Capacitance	3.4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	150 V	—
Maximum Screen Voltage	80 V	—
Maximum Grid Leak Resistance	1 Mohm	—

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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