



ELECTRONIC TUBE REFERENCE

DL70

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Subminiature VHF output pentode designed for battery communications equipment. It provides radio-frequency power at VHF while retaining the low filament demand required by portable systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	1.25 V / 110 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.0019 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	110 V
<i>Published ratings, characteristics, operating conditions and capacitances extracted from supplied Mullard source.</i>	

Subminiature VHF output pentode for battery communications equipment.

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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	1.25 V	—
HeaterOrFilamentCurrent	110 mA	—
PlateToGridCapacitanceMaximum	0.1 pF	—
Input Capacitance	3 pF	—
Output Capacitance	5.6 pF	—
Plate Voltage	135 V	—
Screen Voltage	90 V	—
Plate Current	7.5 mA	—
Screen Current	1.5 mA	—
Control Grid Voltage	-7.5 V	—
Transconductance	1.9 mA/V	—
Plate Resistance	150 kohm	—
MaximumOperatingFrequency	200 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	800 mW	ClassC;Oscillator
Power Output	450 mW	ClassC;Amplifier;Frequency=200MHz