



ELECTRONIC TUBE REFERENCE

QY4400

Power - Beam (NOT sweep) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Forced-air-cooled beam-power tetrode designed for RF power amplification, oscillator, single-sideband linear, and modulator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 14.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.004 S
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	400 W
<i>Forced-air-cooled beam-power tetrode for RF power, oscillator, SSB linear, or modulator service.</i>	

The Mullard QY4400 is a forced-air-cooled beam-power tetrode for RF power, oscillator, SSB linear, or modulator service.

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 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	5 V	—
Heater/Filament Current	14.5 A	—
Transconductance	4000 μ S	RepresentativeSpecifiedOperatingPoint
Input Capacitance	12.7 pF	—
Output Capacitance	4.9 pF	—
Plate-Grid Capacitance	0.12 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Operating Frequency	110 MHz	FullOrSpecifiedRatings
Maximum Plate Voltage	4000 V	—
Maximum Screen Voltage	600 V	—
Maximum Plate Dissipation	400 W	—
RF Output Power	1100 W	RepresentativePublishedOperatingPoint
PEP Output Power	650 W	RepresentativePublishedOperatingPoint
Push-Pull Audio Output Power	1540 W	RepresentativePublishedOperatingPoint
Plate Voltage	4000 V	ClassC; TelegraphyOrFMTelephony; $f < 75$ MHz
Plate Current	350 mA	ClassC
RF Output Power	1100 W	ClassC
Efficiency	79 percent	ClassC
Push-Pull Output Power	1540 W	ClassAB; AudioAmplifier; TwoTubes; $V_a = 4$ kV

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

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