



ELECTRONIC TUBE REFERENCE

QY4500A

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Forced-air-cooled directly heated VHF power tetrode for Class-C RF amplification or oscillation and Class-B television service. Designed for substantial broadcast-frequency output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 13.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.005 S
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	500 W
<i>Forced-air-cooled directly heated VHF power tetrode for Class C RF amplification/oscillation and Class B television service.</i>	

The Mullard QY4500A is a forced-air-cooled directly heated VHF power tetrode for Class C RF amplification/oscillation and Class B television 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 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	5 V	—
Heater/Filament Current	13.5 A	—
Transconductance	5000 μ S	RepresentativeSpecifiedOperatingPoint
Input Capacitance	12.8 pF	—
Output Capacitance	5.6 pF	—
Plate-Grid Capacitance	0.05 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Operating Frequency	220 MHz	FullOrSpecifiedRatings
Maximum Plate Voltage	4000 V	—
Maximum Screen Voltage	500 V	—
Maximum Plate Dissipation	500 W	—
RF Output Power	930 W	RepresentativePublishedOperatingPoint
RF Output Power	630 W	RepresentativePublishedOperatingPoint
Television Peak Output Power	1200 W	RepresentativePublishedOperatingPoint
Plate Voltage	4000 V	ClassC; 110MHz
Plate Current	315 mA	ClassC; 110MHz
RF Output Power	930 W	ClassC; 110MHz
Plate Voltage	3000 V	ClassC; 186MHz
RF Output Power	630 W	ClassC; 186MHz
Television Output Power	1200 W	ClassB; PushPull; Television; 220MHz

TUBE TINKER

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and their source documents.

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