



ELECTRONIC TUBE REFERENCE

QQV0640A

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Double beam tetrode designed for push-pull RF amplification and oscillation to approximately 500 MHz, capable of substantial Class-C output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 900 mA	PARALLEL HEATER	6.3 V / 1.8 A
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
TRANSCONDUCTANCE	0.0045 S
AMPLIFICATION FACTOR	8
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	20 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM GRID DISSIPATION	1 W
<i>Representative of two identical RF-power sections.</i>	

The Mullard QQV0640A is a beam-power double tetrode for push-pull RF amplification/oscillation to 500 MHz.

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 Voltage	6.3 V	—
Heater Current	1.8 A	—
Heater Voltage Series	12.6 V	—
Heater Current Series	900 mA	—
Heater Voltage Parallel	6.3 V	—
Heater Current Parallel	1.8 A	—
Plate-Grid Capacitance	0.06 pF	EachSection
Grid-Anode Capacitance	10.5 pF	EachSection
Plate-to-Other-Anode Capacitance	3.2 pF	EachSection
Push-Pull Output Capacitance	21 pF	TwoSections; PushPull
Push-Pull Input Capacitance	6.7 pF	TwoSections; PushPull
Transconductance	4500 uS	EachSection; Ia=30mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Dissipation	20 W	EachSection
Maximum Operating Frequency	500 MHz	—
RF Output Power	90 W	ClassC; PushPull; RepresentativeHighOutput