

ELECTRONIC TUBE REFERENCE

QQZ0415

Power - Tetrode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Quick-heating directly heated double tetrode designed for mobile RF equipment to approximately 186 MHz. Its paired sections and rapid warm-up suit mobile transmitter applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 680 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.002 S
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	8 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	40 mA
Published ratings and characteristics promoted semantically from the approved source; repeated identical physical sections compressed where applicable.	

The Mullard QQZ0415 is a quick-heating directly heated double tetrode for mobile RF equipment to 186 MHz.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating Time	2 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating Frequency Maximum	186 MHz	FullRatings
Power Output	5 W	PushPull,ClassC,Continuous
Power Output	6 W	PushPull,ClassC,Intermittent



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 Voltage	6.3 V	—
Heater Current	680 mA	—
Filament Voltage	6.3 V	—
Filament Current	680 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating Time	2 s	—
Grid-Filament Capacitance	0.08 pF	EachSection
Plate-Filament Capacitance	3 pF	EachSection
Plate-Grid Capacitance	0.01 pF	EachSection
Push-Pull Input Capacitance	5.5 pF	TwoSections
Push-Pull Output Capacitance	2.9 pF	TwoSections
Transconductance	2000 uS	EachSection; Ia=20mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Dissipation	8 W	EachSection
Maximum Operating Frequency	186 MHz	—
RF Output Power	19.5 W	ClassC; PushPull; Representative
RF Output Power	6 W	FrequencyTripler; Representative